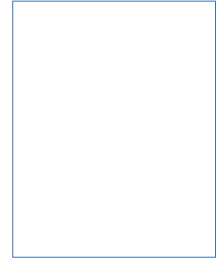


Giovanni Acampora

Curriculum Vitae

Department of Physics "Ettore Pancini"
University of Naples Federico II
, (+39) (0)81676150
✉ giovanni.acampora@unina.it
🌐 UniNA Webpage



Education

Main

- 2007 **PhD, Computer Science**, *University of Salerno, Italy.*
Title of Thesis: *Transparent Fuzzy Agents in Ambient Intelligence Environments.*
- 2003 **Laurea cum Laude, Computer Science**, *University of Salerno, Italy.*
Title of Thesis (in Italian): *Una Piattaforma Java ad Agenti Mobili per l'Implementazione di Sistemi di Controllo Fuzzy Distribuiti.*

Others

- 2010 **Summer School, "Computational Intelligence Methods for Data Analysis in Oncology Bioinformatics"**, *Joint course of the International School on Neural Nets "E.R. Caianiello" and the Italian Network for Oncology Bioinformatics, Italy.*
- 2006 **Summer School, The 2nd International Summer School on Software Engineering (ISSSE2006)**, *University of Salerno, Italy.*
- 2004 **Summer School, Sixth European Agent Systems Summer School (EASSS 2004)**, *University of Liverpool, United Kingdom.*

Italian Professorship Qualification (ASN)

- 2018 **Settore Scientifico Disciplinare: INF/01 INFORMATICA - Settore Concorsuale: 01/B1 INFORMATICA**, *Ministry of Research and University, Italy.*
Prof. Giovanni Acampora is qualified to act as Full Professor at Italian universities from 28/03/2018.

Current Position

- Sept. 2016 – present **Associate Professor in Artificial Intelligence and Quantum Computing**, *Department of Physics "Ettore Pancini", University of Naples Federico II, Italy.*

Past Positions

- 2014 – 2017 **External Examiner, Artificial Intelligence (B6AINT / AINTPG)**, *Plymouth University, United Kingdom.*
- Sept. 2013 – **Reader in Computational Intelligence**, *School of Science and Technology, Nottingham Trent University, United Kingdom.*
Aug. 2016
- July 2012 – **Hoofdocent Tenure Track in Process Intelligence**, *School of Industrial Engineering, Information Systems, Eindhoven University of Technology (TU/e), The Netherlands.*
Aug. 2013
- Mar. 2008 – **Research Fellow in Ambient Intelligence**, *Department of Computer Science, University of Salerno, Italy.*
Mar. 2012
- Jan. 2007 – **Research Fellow in Ambient Intelligence**, *Department of Mathematics and Computer Science*
July. 2007 *(POR Campania 2000/2006 Misura 3.13 – Progetto di Formazione di Esperti in ICT – D.D. n.9 del 14/02/2006), University of Salerno, Italy.*

Sept. 2003 – **Research Fellow in Ambient Intelligence**, *Centro Regionale di Competenza - ICT, Sede di Salerno, Italy.*
Dec. 2003

Research Experience

- August 2019 **Visiting Professor hosted by Prof. Michele Mosca**, *University of Waterloo, Canada.*
- June 2014 **Visiting Researcher hosted by Prof. Zhi-Qiang Liu**, *City University of Hong Kong, School of Creative Media, China.*
- 2012 – 2013 **Leader of Business Process Intelligence Research Cluster**, *Eindhoven University of Technology (TU/e), The Netherlands.*
- Jan. 2008 – **Scientific Coordinator**, *Co.Ri.Sa. Research Consortium, Italy.*
Dec. 2011
- Jan. 2011 – **Scientific Consultant**, *CRMPA Research Centre, Italy.*
Dec. 2011
- Nov. 2011 **Visiting Researcher hosted by Prof. Zhi-Qiang Liu**, *City University of Hong Kong, School of Creative Media, China.*
- May 2010 **Visiting Researcher hosted by Prof. Chang-Shing Lee**, *Department of Computer Science and Information Engineering, National University of Tainan, Taiwan.*
- May 2009 **Visiting Researcher hosted by Prof. Chang-Shing Lee**, *Department of Computer Science and Information Engineering, National University of Tainan, Taiwan.*
- Nov. 2007 **Visiting Researcher hosted by Prof. Zhi-Qiang Liu**, *City University of Hong Kong, School of Creative Media, China.*

Teaching Experience

- June 2021 – **Module Leader**, *Artificial Intelligence and Quantum Computing - M.Sc. Physics/M.Sc. Data Science*, Department of Physics “Ettore Pancini”, University of Naples Federico II, Italy.
Present
- Febr. 2021 **Seminar**, *ComputationalIntelligence@UniNA*, DIGITA Academy, University of Naples Federico II, Italy.
- March 2020 **Seminar**, *ComputationalIntelligence@UniNA*, DIGITA Academy, University of Naples Federico II, Italy.
- Febr. 2019 **Seminar**, *ComputationalIntelligence@UniNA*, DIGITA Academy, University of Naples Federico II, Italy.
- June 2018 – **Module Leader**, *Machine Learning for Physicists - M.Sc. Physics*, Department of Physics “Ettore Pancini”, University of Naples Federico II, Italy.
Present
- June 2016 – **Module Leader**, *Foundations of Computer Science - M.Sc. Physics*, Department of Physics “Ettore Pancini”, University of Naples Federico II, Italy.
Present
- June 2016 – **Module Leader**, *Object-Oriented Programming - M.Sc. Physics*, Department of Physics “Ettore Pancini”, University of Naples Federico II, Italy.
March 2019
- Aug. 2013 – **Module Leader**, *System Software - B.Sc.*, Nottingham Trent University, United Kingdom.
Aug. 2016
- Sept. 2013 – **Module Leader**, *Applied Artificial Intelligence - M.Sc.*, Nottingham Trent University, United Kingdom.
Aug. 2016
- June 2012 – **Lecturer**, *Data Mining and Process Mining - M.Sc.*, Eindhoven University of Technology, The Netherlands.
Aug. 2013
- July 2012 – **Lecturer**, *Software Requirements Management: Quality and Functionality - M.Sc.*, Eindhoven University of Technology, The Netherlands.
Aug. 2013
- May 2012 **Co-Lecturer**, *Machine Learning*, National University of Tainan, Taiwan.

- March 2012 – **Teaching Assistant**, *Knowledge Discovery and Neural Networks - M.Sc.*, University of Salerno, Italy.
June 2012
- March 2012 – **Co-Lecturer**, *Fuzzy Theory and Decision Analysis*, National University of Tainan, Taiwan.
May 2012
- Sept. 2008 – **Teaching Assistant**, *Computational Intelligence*, University of Salerno, Italy.
June 2012
- Sept. 2008 – **Teaching Assistant**, *Soft Computing*, University of Salerno, Italy.
June 2012
- Sept. 2008 – **Teaching Assistant**, *Foundations of Computer Science and Laboratory*, University of Salerno, Italy.
June 2012
- Sept. 2008 – **Teaching Assistant**, *Artificial Intelligence*, University of Salerno, Italy.
June 2012
- Sept. 2008 – **Lecturer**, *Foundations of Computer Science*, University Pegaso, Italy.
Sept. 2009
- Sept. 2008 – **Lecturer**, *Foundations of Computer Science II*, University Pegaso, Italy.
Sept. 2009
- Sept. 2007 – **Teaching Assistant**, *Multi-Agent Systems*, University of Salerno, Italy.
June 2012
- Sept. 2007 – **Teaching Assistant**, *Operating Systems*, University of Salerno, Italy.
March 2011

Thesis Supervision

University of Naples Federico II, Italy

- Jan. 2021 – **Supervisor**, *Master Degree in Physics*, Student: Mauro Iacono, Thesis Title: Fuzzy Neural Networks per Explainable Artificial Intelligence.
June 2021
- March 2021 – **Supervisor**, *Bachelor Degree in Physics*, Student: Davide Romano, Thesis Title: Quantum Machine Learning: implementazione quantum graph recurrent neural network.
May 2021
- Dic. 2020 – **Supervisor**, *Master Degree in Physics*, Student: Alfredo Massa, Thesis Title: Distributed Architectures for Quantum Computing: Reference Model and Implementation.
May 2021
- Oct. 2020 – **Supervisor**, *Master Degree in Physics*, Student: Angela Chiatto, Thesis Title: Memetic algorithms for training variational quantum circuits in machine learning.
March 2021
- May 2020 – **Supervisor**, *Master Degree in Physics*, Student: Roberto Schiattarella, Thesis Title: Reti Neurali per il Mapping di Circuiti su Processori Quantistici.
Oct. 2020
- March 2019 – **Supervisor**, *Master Degree in Physics*, Student: Andrea Colecchia, Thesis Title: Fuzzy LTL Games.
Dic. 2019
- June 2019 – **Supervisor**, *Master Degree in Physics*, Student: Gianluca Minopoli, Thesis Title: Application of Machine Learning Algorithms to Bloodstain Pattern Images.
Nov. 2019
- July 2019 – **Supervisor**, *Bachelor Degree in Physics*, Student: Raffaele Mendozza, Thesis Title: A quantum implementation of Support Vector Machine algorithm on IBM QX processors.
Oct. 2019
- July 2019 – **Supervisor**, *Bachelor Degree in Physics*, Student: Mariano Mollo, Thesis Title: Implementazione di un algoritmo KNN multiclasse su hardware quantistico.
Oct. 2019
- March 2019 – **Supervisor**, *Bachelor Degree in Physics*, Student: Ferdinando D'Apice, Thesis Title: Generalizzazione di un neurone quantistico al caso multi-classe implementato sull'IBM-Q Tenerife.
July 2019
- Sept. 2018 – **Supervisor**, *Master Degree in Physics*, Student: Salvatore Diaspro, Thesis Title: Deep Learning per Manutenzione Predittiva.
March 2019
- July 2018 – **Supervisor**, *Bachelor Degree in Physics*, Student: Pasquale Mattaliano, Thesis Title: Una tecnica quantistica per la classificazione binaria basata su distanze.
Oct. 2018

- Jan. 2018 – **Co-Supervisor**, *Master Degree in Computer Science*, Student: Alessandro Serrapica, Thesis Title: Un dispositivo indossabile per l'analisi della scena del crimine basata su Bloodstain Pattern Analysis (supervisor: Prof. Francesco Cotugno).
 Oct. 2018
- Nov. 2017 – **Co-Supervisor**, *Master Degree in Computer Science*, Student: Mariangela Berardinelli, Thesis Title: Classificazione di segnali BCI con Support Vector Machine e Training Set Selection (supervisor: Prof. Silvia Rossi).
 March 2018
- [Nottingham Trent University, United Kingdom](#)
- March 2015 – **Supervisor visiting student**, *Master Degree in Energy Engineering*, Student: Davide Caruso, Università degli Studi del Sannio, supervisor: Prof. Alfredo Vaccaro .
 June 2015
- March 2016 – **Supervisor visiting student**, *Bachelor Degree in Computer Science*, Student: Davide Russo, Programma Erasmus+ Traineeship, supervisor: Prof. Rocco Oliveto, Università degli Studi del Molise.
 May 2016
- April 2016 – **Supervisor visiting student**, *Bachelor Degree in Computer Science*, Student: Daniel de Pascale, Programma Erasmus+ Traineeship, supervisor: Prof. Rocco Oliveto, Università degli Studi del Molise.
 June 2016
- Jan. 2014 – **Supervisor**, *of students for Bachelor and Master Degrees in Computer Science and Computer Engineering*.
 Aug. 2016
- [Eindhoven University of Technology, the Netherlands](#)
- Sept. 2013 – **Supervisor (together with Prof. Rik Eshuis)**, *Master of Science in Operations Management and Logistics*, Student: R.J.M. Vermeulen, Thesis Title: Design of an enterprise architecture for information requirements identification: an exploratory study within the high-tech industry.
 Jan. 2014
- Jan. 2013 – **Supervisor (together with Prof. Marco Comuzzi)**, *Master of Science in Business Information Systems*, Student: Rafael Martinez, Thesis Title: Customization of business process monitoring.
 Aug. 2013
- May 2013 **Member of Thesis Evaluation Board (supervisor Prof. Marco Comuzzi)**, *Master of Science in Business Information Systems*, Student: Fangling Xiong, Thesis Title: Application of Process Mining Techniques to Mass Customization.
- Nov. 2012 – **Supervisor (together with Prof. Marco Comuzzi)**, *Bachelor of Science in Industrial Engineering and Management Science*, Student: Job Visser, Thesis Title: Analysis of the clinical laboratory at Amphia hospital – Breda.
 March 2013
- [University of Salerno, Italy](#)
- Oct. 2019 – **Co-Supervisor**, *Bachelor Degree in Computer Science*, Student: Gennaro Alessio Robertazzi, Thesis Title: A Web Application for Dataset Preprocessing in Quantum Machine Learning (supervisor: Prof.ssa Filomena Ferrucci).
 Feb. 2021
- Sept. 2012 – **Daily Supervisor**, *Master Degree in Computer Science*, Student: Mario Cortese, Thesis Title: Un Nuovo Algoritmo di Ottimizzazione Nature-Inspired.
 May 2013
- Sept. 2012 – **Daily Supervisor**, *Master Degree in Computer Science*, Student: Modestino Materazzo, Thesis Title: Algoritmi Genetici Paralleli per Allineamento Ontologico.
 May 2013
- May 2009 – **Daily Supervisor**, *Master Degree in Computer Science*, Student: Vittorio Fortino, Thesis Title: Subspace Clustering Gerarchico per la Sintesi Strutturale di Pareto Front.
 Dic 2009
- Dic. 2008 – **Daily Supervisor**, *Master Degree in Computer Science*, Student: Fabio Ferraguto, Thesis Title: Tecniche Avanzate di Fuzzy Controllo Temporizzato per la Modellazione Comportamentale ed Emotiva di Videogames Bots.
 Oct. 2009
- Dic. 2008 – **Daily Supervisor**, *Master Degree in Computer Science*, Student: Autilia Vitiello, Thesis Title: Time Sensitive Fuzzy Agents: Modello Formale e Implementazione.
 July 2009
- Oct. 2007 – **Daily Supervisor**, *Master Degree in Computer Science*, Student: Daniele Apreda, Thesis Title: Un Ambiente di Sviluppo per la Progettazione di Transparent Fuzzy Agents.
 May 2008

- Oct. 2007 – **Daily Supervisor**, *Master Degree in Computer Science*, Student: Roberto Valente, Thesis Title:
 May 2008 Un Approccio Memetico per la Risoluzione Approssimata del Problema di Task Scheduling.
- Dic. 2006 – **Daily Supervisor**, *Master Degree in Computer Science*, Student: Anna Avallone, Thesis Title:
 May 2007 Un Approccio Formale alla Modellizzazione di un Sistema di Membrane Computing con Paradigma Ad Agenti.
- Dic. 2006 – **Daily Supervisor**, *Master Degree in Computer Science*, Student: Carla Celentano, Thesis
 May 2007 Title: Una piattaforma java ad agenti mobili per l'implementazione di un sistema di Membrane Computing.
- Sept. 2006 – **Daily Supervisor**, *Bachelor Degree in Computer Science*, Student: Modestino Matarazzo, Thesis
 Feb. 2007 Title: Un Sistema di Advanced User Friendly Interface per Ambienti Domotici.
- Nov. 2004 – **Daily Supervisor**, *Master Degree in Computer Science*, Student: Cristian Gagliardi, Thesis Title:
 Sept. 2005 Un Sistema Multi Agent per il Controllo Avanzato di Servizi Domotici.
- Oct. 2003 – **Daily Supervisor**, *Master Degree in Computer Science*, Student: Francesco Gimondo, Thesis
 July 2004 Title: Fuzzy Control Interoperability per Applicazioni Domotiche Avanzate.

PhD Activities

Teaching

- Jan. 2021 – **Module Leader**, *Quantum Algorithms - Ph.D. Physics/Ph.D Quantum Technologies*, Department
 present of Physics "Ettore Pancini", University of Naples Federico II, Italy.
- 2017 – **Member of PhD Board (Collegio dei Docenti)**, *PhD in Physics*, Department of Physics
 present "Ettore Pancini", University of Naples Federico II, Italy.
- 2016 – **Module Leader**, *Quantum Computing e Artificial Intelligence - Ph.D. Physics/Ph.D Quantum
 present Technologies*, Department of Physics "Ettore Pancini", University of Naples Federico II, Italy.

Supervision Activity

- Nov. 2020 – **Supervision**, *Student Name: Roberto Schiattarella*, University of Naples Federico II, Italy.
 present
- Nov. 2018 – **Supervision (co-supervised with Prof. Vittorio Cataudella)**, *Student Name: Pratibha Hedge*,
 present University of Naples Federico II, Italy.
- Sept. 2018 – **Member of Admission Commission to the Doctoral Course**, *Ph.D in Physics (Foreign
 Oct. 2018 Students)*, University of Naples Federico II, Italy.
- Nov. 2017 – **Supervision**, *Student Name: Pasquale Trinchese*, University of Naples Federico II, Italy.
 July 2021
- Oct. 2017 – **Supervision**, *Student Name: Claudio Pipicelli*, University of Naples Federico II, Italy.
 June 2020
- Nov. 2015 – **Supervision (co-Supervised with Prof. Taha Osman)**, *Student Name: Abduladem Aljamel*,
 Aug 2016 Nottingham Trent University, United Kingdom.
- Nov. 2014 – **Supervision**, *Student Name: Alyxander David May*, Nottingham Trent University, United
 Aug. 2016 Kingdom.
- Nov. 2013 – **Supervision (co-Supervised with Prof. David Brown)**, *Student Name: Mohammad Taheri*,
 Aug. 2016 Nottingham Trent University, United Kingdom.
- Nov. 2009 – **Supervision (Daily Supervisor)**, *Student Name: Autilia Vitiello*, University of Salerno, Italy.
 April 2013 Title of Thesis: Memetic Algorithms for Ontology Alignment
- Oct. 2008 – **Supervision of Visiting PhD Student (together with Prof. Jose Manuel Cadenas)**, *Student
 Dic. 2009 Name: Enrique Munoz Ballester*, University of Murcia, Spain.
 Title of Thesis: Adaptive Memetic Algorithms

Member of Examination Boards

- May 2017 **Member of Examination Board**, *Candidate Name: Gianluca Zaccagnino*, University of Salerno, Italy, Title of Thesis: Computer Music Algorithms. Bio-inspired and Artificial Intelligence Applications..
- April 2017 **Member of Examination Board**, *Candidate Name: Fabio Palomba*, University of Salerno, Italy, Title of Thesis: Code Smells: Relevance of the Problem and Novel Detection Techniques..
- April 2017 **Member of Examination Board**, *Candidate Name: Valentina Indelli Pisano*, University of Salerno, Italy, Title of Thesis: Reducing the View Selection Problem through Code Modeling: Static and Dynamic approaches..
- April 2017 **Member of Examination Board**, *Candidate Name: Pasquale Salza*, University of Salerno, Italy, Title of Thesis: Parallel genetic algorithms in the cloud..
- July 2015 **Member of Examination Board**, *Candidate Name: Bo Yao*, University of Essex, United Kingdom, Title of Thesis: A Big Bang Big Crunch Type-2 Fuzzy Logic System for Machine Vision-Based Event Detection and Summarization in Real-world Ambient Assisted Living..
- May – July 2015 **Independent Assessor**, *Candidate Name: Joe Sarsfield*, Nottingham Trent University, United Kingdom.
- Nov. 2014 **Member of Examination Board**, *Candidate Name: Dario Bernardo*, University of Essex, United Kingdom, Title of Thesis: A Type-2 Fuzzy Logic based System for Linguistic Summarization and Prediction for Financial Data.
- Sept. 2014 **Member of Examination Board**, *Candidate Name: Ilpo Poikolainen*, University of JYVÄSKYLÄ, Finland, Title of Thesis: Simple Memetic Computing Structures for Global Optimization.
- Nov. 2013 **Internal Examiner of Examination Board**, *Candidate Name: Sakirulai Isiaq*, Nottingham Trent University, United Kingdom, Title of Thesis: A Context-Driven Adaptive Mobile City Guide..
- Oct. 2013 – July 2014 **Independent Assessor**, *Candidate Name: Yasser Alroqi*, Nottingham Trent University, United Kingdom.
- Sept. 2013 **Independent Assessor**, *Candidate Name: Hussein Khalil*, Nottingham Trent University, United Kingdom.

Research Grants and Project Activities

Research Grants

- July 2021 **External Co-Investigator - Strategic Research Fund - NTU**, *Project Title: Exploring Quantum Computing Use Cases for Finance and Healthcare*, Nottingham Trent University, United Kingdom.
Amount funded: Pounds 50.000,00.
- June 2021 **Principal Scientific Advisor - Campania Start Up 2020, funded by: Regione Campania**, *Project Title: QuantumNet*, T.P.S. SRL, Italy.
Preliminary amount funded: Euro 200.000,00.
- Dic. 2020 **Principal Investigator - Fondi di Ricerca di Ateneo (FRA 2020 - UniNA)**, *Project Title: "FRONTIER - Forensic Robots for Holographic Reconstruction of Crime Dynamics in a post-Bloody Event Scenario"*, University of Naples Federico II, Italy.
Amount funded: Euro 40.000,00.
- July 2019 – June 2020 **External Co-Investigator - PPG2019-UCOSOCIAL-03, Universidad de Córdoba - Spain**, *Project Title: Sistema de Interacción con Movimientos Corporales Basado en Sensores Visuales y de Profundidad Orientado a la Mejora de la Motricidad Gruesa en Niños/As con Trastornos Motores*, with: Prof. José Manuel Soto Hidalgo, University of Granada, Spain.
Amount funded: Euro 3.000,00.

- March 2019 – **Co-Investigator - H2020-EU.3.5.4. - Enabling the transition towards a green economy and society through eco-innovation H2020-WATER-2015**, *Project Title: "MAGIC - Moving Towards Adaptive Governance in Complexity: Informing Nexus Security"*, University of Naples Federico II, Italy.
Sep. 2020
Amount funded: Euro 7.457.761,25.
- Jan. 2019 – **External Co-Investigator - RTI2018-098371-B-100, Ministerio de Economía y Competitividad - Spain**, *Project Title: Intelligent Distributed Processing Architectures in Fog Level for the IoT Paradigm*, with: Prof. José Manuel Soto Hidalgo, University of Granada, Spain.
present
Amount funded: Euro 32.065,00.
- April 2018 – **Co-Investigator - MIUR-ARS01_01384**, *Project Title: "Micro-mechanical and robotic tools for the diagnosis and therapy of prostate cancer"*, Interdepartmental Center for Advances in Robotic Surgery of the University of Naples Federico II, Italy.
present
Amount funded: Euro 8.754.244.
- Aug. 2017 – **Principal Investigator - AOO_IAI - AOO_Incentivi Fondo per la Crescita Sostenibile - Bando "HORIZON 2020" PON I&C 2014-2020**, *Project Title: "GESTIWORLD - Sistema Integrato di Manutenzione Predittiva"*, University of Naples Federico II, Italy.
Oct. 2018
Amount funded: Euro 300.000,00 as a consultancy activity requested by the ORION company, Padova, Italy.
- Jan. 2015 – **Co-Investigator - UE Horizon 2020 ICT-20-2015 Technologies for better human learning and teaching**, *Project Title: "MATHISIS - Managing Affective-learning THrough Intelligent atoms and Smart Interactions"*, Nottingham Trent University, United Kingdom.
Aug. 2016
Amount funded: Euro 7.618.584,00.
- Dec. 2013 – **Principal Investigator - Vice-Chancellor Bursary Award, School of Science and Technology, Nottingham Trent University, United Kingdom.**
Aug. 2016
Amount funded: Pounds 100.000,00.
- Nov. 2017 – **Principal Investigator - MIUR Bursary Award (Dottorati Industriali)**, *University of Naples Federico II, Italy.*
July 2021
Amount funded: Euro 66.000,00.
- Nov. 2012 – **Principal Investigator - UE FP7 PEOPLE Marie Curie Action (CIG 2012)**, *Project Title: "MemeProcMin - An Adaptive Memetic Algorithm for Process Mining" - Evaluation: 91.3/100 (threshold 70.0)*, Eindhoven University of Technology (TU/e), The Netherlands.
Aug. 2013
Amount funded: Euro 100.000,00.
- [Referee for Research Grant Applications](#)
- June 2021 – **Referee, Evaluator of ICT project proposals in the context of the program Assegni di Ricerca Cultura 2019 - Decreto n 2686 del 26/02/2019 - Commessa n. B02-2019-04, Sviluppo Toscana S.p.A..**
present
- Jan. 2021 – **Referee, Evaluator of ICT project proposals in the context of the INGV program Pianeta Dinamico 2020, an initiative of Istituto Nazionale Geologia e Vulcanologia.**
present
- Oct. 2019 – **Referee, Evaluator of ICT project proposals in the context of the Vi.Vidi program of the Dutch Research Council.**
present
- April 2019 – **Referee, Evaluator of ICT project proposals in the context of the Q@TN program of the University of Trento.**
present
- Jan. 2016 – **Referee, Member of the Register of Italian and Foreign Scientific Experts (REPRISE).**
present
- Jan. 2016 – **Referee, Evaluator of ICT project proposals in the context of the Chilean program FONDECYT, an initiative of the Chilean National Science and Technology Commission.**
present
- March 2014 **Referee, Evaluator of ICT project proposals in the context of the consortium CHIST-ERA-NET.**

Awards and Honors

- July 2021 **Best Paper Award**, *2021 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2021)*, G. Acampora and A. Vitiello, Paper Title: Error Mitigation in Quantum Measurement through Fuzzy C-Means Clustering.
- April 2021 **IBM Quantum Experience Academic Research Program Award**, *for the research activity on Quantum Genetic Evolution*, funded by IBM.
- Jan. 2021 **World's Top 2% Scientists**, *for the year 2019 in the field of Artificial Intelligence*, published by Stanford University on PLoS Biology Journal.
- Jan. 2021 **World's Top 2% Scientists**, *for the career in the field of Artificial Intelligence*, published by Stanford University on PLoS Biology Journal.
- August 2019 **2019 Canada-Italy Innovation Award**, *for a joint project with the University of Waterloo, ON, in the priority area Emerging Technologies*, funded by Embassy of Canada in Italy.
Project Title: Quantum Machine Learning.
- December 2016 **IEEE-SA Emerging Technology Award**, *for outstanding contribution and leadership as Chair of the IEEE P1855 Working Group in initiating and facilitating the creation of the first IEEE standard in the area of fuzzy logic.*
- September 2016 **IEEE-SA Working Group Chair Award for IEEE 1855** .
IEEE Standards Association
- September 2016 **IEEE-SA Certificate of Appreciation for IEEE 1855.**
IEEE Standards Association
- September 2012 **Best Paper Award**, *2012 UK Workshop on Computational Intelligence (UKCI 2012)*, G. Acampora, U. Kaymak, V. Loia, A. Vitiello, Paper Title: Hybridizing Genetic Algorithms and Hill Climbing for Similarity Aggregation in Ontology Matching.
- June 2011 **Winner of Scientific Competition**, *Fuzzy Competition Award at 2011 IEEE Conference on Fuzzy Systems (Fuzz-IEEE 2011)*, Taiwan.
G. Acampora, Paper Title: A TSK Neuro-Fuzzy Approach for modeling Highly Dynamic Systems.

Standards and Patents

- June 2021 – present **Standardization Activity**, *IEEE 2976 for XAI – eXplainable Artificial Intelligence - for Achieving Clarity and Interoperability of AI Systems Design*, Role: Vice-Chair of the Standardization Working Group.
IEEE Standards Association
- 2016 **Standardization Activity**, *IEEE 1849-2016 Standard for eXtensible Event Stream (XES) for Achieving Interoperability in Event Logs and Event Streams*, Role: Balloter.
IEEE Standards Association
- Jan. 2017 – present **Use of Patents and Standards**, *The IEEE 1855-2016 Standard for Fuzzy Markup Language, invented by Prof. G. Acampora, is currently used as main technology of JFML, a software library for the design and development of fuzzy systems.*
JFML Webpage
- Jan. 2017 – present **Development of Patents and Standards**, *Prof. Acampora designed, implemented and chaired the standardization activities related to IEEE 1855, the first IEEE standard technology released in the field of computational intelligence and fuzzy logic*, Published on May 27th, 2016.
IEEE 1855 Webpage

Technology Transfer

- June 2021 **Involvement in the launch of new companies**, *Prof. Acampora is a founding partner of QuantumNet, a pioneering Italian company in the field of quantum computing and artificial intelligence..*

2010 **Involvement in the launch of new companies**, *Research activities performed by Prof. Acampora contributed to the launch of the Consorzio di Ricerca Sistema ad Agenti, a research consortium founded by Prof. Vincenzo Loia.*

2010 **Involvement in the launch of new companies**, *Research activities performed by Prof. Acampora contributed to the launch of the Consorzio di Ricerca Sistema ad Agenti, a research consortium founded by Prof. Vincenzo Loia.*

Leadership and Participation in International Research Groups

June 2021 – **National Committee Membership**, *Member of the Task Force on Smart and Sustainable Mobility (SUM), University of Naples Federico II.*

Jan. 2021 – **International Committee Chairman**, *Co-Chair of Technical Committee on Quantum Cybernetics, IEEE Systems, Man and Cybernetics Society.*

Jan. 2021 – **International Committee Membership**, *Member of the IEEE CIS High School Outreach Subcommittee.*

Sept. 2020 – **Participation in National Research Groups**, *Participation in the activities of the working group for defining a proposal for an European Digital Innovation Hub., Proposal Name: AI Magister. This proposal has been pre-selected by the Ministero per lo Sviluppo Economico for a final evaluation by European Commission*

Aug. 2020 – **Participation in National Research Groups**, *Participation in the activities of the Istituto Nazionale di Fisica Nucleare (INFN) - Sezione di Napoli, Project Title: ATLAS.*

Aug. 2020 – **Participation in National Research Groups**, *Participation in the activities of the Istituto Nazionale di Fisica Nucleare (INFN) - Sezione di Napoli, Project Title: SND@LHC.*

Aug. 2020 – **Participation in National Research Groups**, *Participation in the activities of the Istituto Nazionale di Fisica Nucleare (INFN) - Sezione di Napoli, Project Title: NEWS.*

Aug. 2020 – **Participation in National Research Groups**, *Participation in the activities of the Istituto Nazionale di Fisica Nucleare (INFN) - Sezione di Napoli, Project Title: NEXT_AIM.*

Aug. 2020 – **Participation in National Research Groups**, *Member of the Istituto Nazionale di Fisica Nucleare (INFN) - Sezione di Napoli.*

July 2020 – **International Committee Membership**, *Foundation Advisory Board Member of the International AIQT Foundation.*

Jan. 2018 - **International Committee Chairman**, *Vice-Chair of IEEE Computational Intelligence Society Standards Committee.*

2018 – **Participation in International Research Groups**, *Collaboration with Prof. Jose Manuel Soto-Hidalgo, University of Granada, Spain.*

2018 – **Participation in International Research Groups**, *Collaboration with Prof. Jesus Alcala-Fdez, University of Granada, Spain.*

Nov. 2017 – **National Committee Membership**, *Member of the Task Force Blue Italian Growth at the University of Naples Federico II.*

Sept. 2016 – **International Committee Membership**, *Advisory Robotics/AI Board Member of the Lifeboat Foundation.*

June 2016 – **Laboratory Administrative Chairman**, *PRISCA (Progetti di Robotica Intelligente e Sistemi Cognitivi Avanzati) at the University of Naples Federico II.*

June 2016 – **National Committee Membership**, *Member of ICAROS (Interdepartmental Center for Advances in Robotic Surgery), University of Naples Federico II.*

June 2016 – **Laboratory Chairman**, *Quantum Computing e Smart Systems Research Centre at the University of Naples Federico II.*

- Jan. 2016 – **International Committee Membership**, *IEEE CIS Subcommittee for Outstanding Chapter present Award Member.*
- Jan. 2016 – **National Committee Membership**, *Active Member of the IEEE Computational Intelligence Society - Italian Chapter.*
- Jan. 2016 – **International Committee Chairman**, *Chair of IEEE Computational Intelligence Society Standards Committee.*
Dec. 2017
- 2016 – **Participation in National Research Groups**, *Collaboration with the PRISMA Laboratory of the rof. Bruno Siciliano, Università degli Studi di Napoli Federico II.*
present
- 2016 – **Participation in National Research Groups**, *Collaboration with the research group of the Prof. Genoveffa Tortora, Università degli Studi di Salerno .*
present
- 2016 – **Participation in International Research Groups**, *Collaboration with the John Van Geest present Cancer Research Centre.*
- 2016 – **Participation in International Research Groups**, *Collaboration with the Soft Computing and present Intelligent Information Systems Research Group, Prof. Francisco Herrera, University of Granada, Spain.*
- 2016 – **International Committee Chairman**, *Chair of IEEE Computational Intelligence Society Task present Force: Fuzzy Systems for Web Intelligence.*
- 2015 – **International Committee Membership**, *Member of the IEEE Computational Intelligence Society present Technical Committee on Fuzzy Systems.*
- Jan. 2015 – **International Committee Chairman**, *Vice-Chair of IEEE Computational Intelligence Society Dec. 2015 Standards Committee.*
- 2014 – **Participation in International Research Groups**, *Collaboration with the research group of the present Prof. Witold Pedrycz, University of Alberta, Canada.*
- 2014 – **Participation in International Research Groups**, *Collaboration with the Soft Computing and present Intelligent Information Systems Research Group, Prof. Hisao Ishibuchi, University of Granada, Spain.*
- 2014 – **Participation in International Research Groups**, *Collaboration with the research group of the present Prof. Marek Reformat, University of Alberta, Canada.*
- 2014 – **Participation in International Research Groups**, *Collaboration with the research group of present Luciano Garofano, Past Commander Carabinieri RIS Parma, Italy.*
- 2013 – **Participation in International Research Groups**, *Collaboration with the research group of the present Prof. D. J. Cook, Washington State University, USA.*
- Oct. 2012 – **International Committee Chairman**, *Leader of Business Process Intelligence Research Cluster Aug. 2013 at Eindhoven University of Technology, the Netherlands.*
- Jan. 2012 – **International Committee Chairman**, *Chair of IEEE Standards Association Working Group for present Fuzzy Markup Language Standardization IEEE 1855WG.*
- 2012 – **Participation in International Research Groups**, *Collaboration with the research group of the present Prof. Uzay Kaymak, Eindhoven University of Technology, The Netherlands.*
- Oct. 2012 – **Participation in National Research Groups**, *Collaboration with CORISA - Consorzio di Ricerca Dec. 2012 Sistemi ad Agenti, Project: Mi Food Exploitation, funded by Italian Ministry of Industry.*
- Jan. 2012 – **International Committee Chairman**, *Chair of IEEE Computational Intelligence Society Standards Dec. 2014 Committee.*
- Jan. 2011 – **Participation in National Research Groups**, *Collaboration with CRMPA - Centro di Ricerca in Dec. 2011 Matematica Pura e Applicata, Project Title: ALICE - Adaptive Learning via Intuitive/Collaborative and Emotional System, belonging to the European Program FP7.*
- 2010 – **Participation in International Research Groups**, *Collaboration with the Computational Intel- present ligence Centre, Prof. Hani Hagrass, University of Essex, United Kingdom.*

- 2010 – **Participation in International Research Groups**, *Collaboration with the research group of the present Prof. Jose Manuel Cadenas, University of Murcia, Spain.*
- Jan. 2010 – **National Committee Chairman, Secretary and Treasurer of the Italian Section of the IEEE**
Dec. 2012 *Computational Intelligence Society.*
- Jan. 2009 – **International Committee Membership, Member of IEEE Computational Intelligence Society**
Dec. 2012 *Standards Committee.*
- Jan. 2009 – **International Committee Chairman, Chair of Task Force on Terminology and Taxonomy in**
Dec. 2012 *IEEE Computational Intelligence Society, Standards Committee.*
- Oct. 2009 – **Participation in National Research Groups, Collaboration with CRMPA - Centro di Ricerca**
Dec. 2009 *in Matematica Pura e Applicata, Project: e-LMap-WIS, funded by “Progetto Fondazione per il Sud”.*
- 2009 – **Participation in International Research Groups, Collaboration with the Ontology Applications**
present *& Software Engineering Laboratory, Prof. Chang-Shing Lee, University of Tainan Taiwan.*
- 2007 **Participation in National Research Groups, Collaboration with Department of Mathematics**
and Computer Science (University of Salerno), Project Title: APEX - “Miglioramento dei Livelli di Affidabilità e Sicurezza Mediante lo Sviluppo di un’Architettura di Processo Evolutiva per i Controlli Non Distruttivi di Strutture Aeronautiche” (2006/2007 APEX - Legge 297 - Progetto PON – N. Prot. 12784, in collaboration with Alenia S.p.A.

Editorial Activities

- May 2018 – **Founder and Editor in Chief, Springer Quantum Machine Intelligence.**
present
- Nov. 2018 – **Editorial Board Member, Asia-SAME Transactions on Engineering Sciences.**
present
- Nov. 2017 – **Editorial Board Member, World Journal of Technology, Engineering and Research.**
present
- 2017 – **Area Editor, International Journal of Computational Intelligence Systems.**
present
- 2017 – **Academic Editor, PLOS ONE.**
present
- 2017-2020 **Book Editor, Computational Intelligence for Semantic Knowledge Management, Studies in**
Computational Intelligence 837, Springer.
ISBN 978-3-030-23760-8
- July 2016 – **Editorial Board Member, MDPI Inventions Journal.**
present
- Jan. 2016 – **Associate Editor, IEEE Transactions on Fuzzy Systems.**
present
- Dec. 2015 – **Guest Editor, IEEE Transactions on Fuzzy Systems, Cognitive Agents and Robots for Human-**
March 2017 *Centered Systems, IEEE Transactions on Cognitive and Developmental Systems.*
- 2015 **Guest Editor, IEEE Transactions on Fuzzy Systems, Thematic issue on hybrid nature-inspired**
algorithms: concepts, analysis and applications, Springer Memetic Computing Journal.
- Feb. 2014 – **Editorial Board Member, International Journal of Control, Automation, Communication and**
present *Systems.*
- 2014 – 2018 **Editorial Board Member, Springer Book Series “Proceedings of Adaptation, Learning and**
Optimization”.
- 2014 – 2018 **Editorial Board Member, Elsevier Heliyon.**
- 2014 – 2016 **Editorial Board Member, Springer Memetic Computing.**

- 2013 **Book Editor**, *On the Power of Fuzzy Markup Language*, Studies in Fuzziness and Soft Computing 296, Springer.
ISBN 978-3-642-35487-8
- 2012 – **Editorial Board Member**, *Inderscience International Journal of Autonomous and Adaptive present Communications Systems*.
- 2012 **Guest Editor**, *Special issue on fuzzy ontologies and fuzzy markup language applications*, Soft Computing - A Fusion of Foundations, Methodologies and Applications, Springer.
- 2011 – **Editorial Board Member**, *International Journal of Advancements in Computing Technology*.
present *Advanced Institute of Convergence Information Technology Research Center*.
- 2011 – **Associate Editor**, *Springer Soft Computing*.
present
- 2011 – 2013 **Assistant Editor**, *Springer Soft Computing*.

Invited Talks

- 2021 **Invited Speaker**, *Summer School on Computational Intelligence*, Virtual Meeting, Talk Title: A Quantum Leap in Evolutionary Computation.
Invited by Prof. Chang-Shing Lee
- 2021 **Invited Speaker**, *Centro de Investigación en Tecnologías de la Información y las Comunicaciones (CITIC-UGR), Spain*, Virtual Meeting, Talk Title: A Quantum Leap in Evolutionary Computation.
Invited by Prof. José Manuel Soto-Hidalgo
- 2021 **Invited Speaker**, *Nottingham Trent University, UK*, Virtual Meeting, Talk Title: A Quantum Leap in Evolutionary Computation.
Invited by Prof. Amir Pourabdollah
- 2021 **Invited Speaker**, *Le città Intelligenti*, Virtual Meeting, Talk Title: L'Intelligenza Artificiale: una Nuova Cultura per gli Enti Locali.
Invited by ANCI DIGITALE
- 2020 **Invited Speaker**, *Summer School on Computational Intelligence for Human and Robot Co-learning*, Virtual Meeting, Talk Title: IEEE 1855: Foundations, Applications, Education.
Invited by Prof. Naoyuki Kubota
- 2020 **Invited Speaker**, *Machine Learning and New Technology Trends - Istituto Nazionale di Fisica Nucleare, Naples, Italy*, Talk Title: Quantum Computing and Artificial Intelligence.
Invited by Dr. Elvira Rossi
- 2020 **Invited Speaker**, *IV Congresso Nazionale Accademia Italiana di Scienze Forensi*, Online Tutorial, Talk Title: Intelligenza Artificiale applicata alle Scienze Forensi - Parte 1.
Invited by General Luciano Garofano - Past Commander Carabinieri RIS Parma
- 2019 **Invited Speaker**, *Maratea Heroes*, Maratea, Italy, Talk Title: Tavola Rotonda su Tecnologie Cognitive, Social Robots and Digital Transformation. Where we are... and what future!.
Invited by Prof. Antonio Pescapè and Prof. Cristina Mele
- 2019 **Invited Speaker**, *Summer School on Computational Intelligence for Human and Smart Machine Co-learning*, Kaohsiung, Taiwan, Talk Title: IEEE 1855 in Internet of Things.
Invited by Prof. Chang-Shing Lee
- 2019 **Invited Speaker**, *III Congresso Nazionale Accademia Italiana di Scienze Forensi*, Turin, Italy, Talk Title: A Serious Game for Training Police Officers in Tagging Crime Scenes.
Invited by General Luciano Garofano - Past Commander Carabinieri RIS Parma
- 2018 **Invited Speaker**, *II Congresso Nazionale Accademia Italiana di Scienze Forensi*, Rome, Italy, Talk Title: L'Intelligenza Artificiale e le Interfacce Olografiche sulla Scena del Crimine.
Invited by General Luciano Garofano - Past Commander Carabinieri RIS Parma

- 2018 **Invited Speaker**, *Il Sabato delle Idee*, Naples, Italy, Talk Title: Tavola Rotonda - L'Italia del Futuro in un mondo che Cambia. Fuga di Cervelli. Tornare o non tornare?
Invited by Prof. Gaetano Manfredi - Rector of University of Naples Federico II
- 2017 **Invited Tutorial Speaker**, *2017 IEEE Conference on Fuzzy Systems (Fuzz-IEEE 2017)*, Naples, Italy, Tutorial Title: Tutorial on Software for Fuzzy Computing.
Invited by Prof. Oscar Cordon
- 2014 **Invited Seminar**, *Tsinghua University*, Beijing, China, Seminar Title: Fuzzy Markup Language Scripts.
Invited by Prof. Chang-Shing Lee
- 2012 **Invited Seminar**, *Eindhoven University of Technology*, Eindhoven, the Netherlands, Seminar Title: A Research Trend on Computational Intelligence.
Invited by Prof. Uzay Kaymak
- 2012 **Invited Seminar**, *University of Tainan*, Tainan, Taiwan, Seminar Title: Fuzzy Markup Language and Applications.
Invited by Prof. Chang-Shing Lee
- 2012 **Invited Webinar Speaker**, *IEEE Computational Intelligence Webinars*, Online Tutorial, Tutorial Title: On the Temporal Granularity in Fuzzy Cognitive Maps.
Invited by IEEE Computational Intelligence Society
- 2012 **Invited Speaker**, *2012 French-Taiwanese Workshop on Energy Management*, Tainan, Taiwan, Talk Title: Fuzzy Markup Language for Energy Management.
Invited by Prof. Chang-Shing Lee
- 2012 **Invited Seminar**, *European Centre for Soft Computing*, Oviedo, Spain, Seminar Title: A Research Trend on Computational Intelligence: New Methodologies and Technologies for Intelligent Collaborative Systems.
Invited by Prof. Enrique Ruspini
- 2012 **Invited Seminar**, *University of Essex*, Colchester, United Kingdom, Seminar Title: On the Temporal Granularity in Fuzzy Cognitive Maps.
Invited by Prof. Hani Hagrass
- 2011 **Invited Speaker**, *2011 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2011, @ Southern Taiwan Forum - Fuzzy Theory and Applications*, Tainan, Taiwan, Talk Title: Fuzzy Markup Language.
Invited by Prof. Chang-Shing Lee
- 2010 **Invited Webinar Speaker**, *IEEE Computational Intelligence Webinars*, Online Tutorial, Tutorial Title: An Open Integrated Environment for Transparent Fuzzy Agents Design: the Fuzzy Markup Language.
Invited by IEEE Computational Intelligence Society

Conference Activities

Participation to Organizing Committees

- 2021 **Program Committee Member**, *Conference on Big Data for Small Area Estimation (SAE 2021)*, Naples, Italy.
- 2020 **Program Committee Member**, *Quantum Techniques in Machine Learning 2020 (QTML 2020)*, Cambridge, Massachusetts, USA.
- 2020 **Program Committee Member**, *International Conference on Advanced Visual Interfaces (AVI 2020)*, Ischia, Italy.
- 2019 **Program Committee Member**, *Quantum Techniques in Machine Learning 2019 (QTML 2019)*, Daejeon, South Korea.

- 2019 **Organizing Committee Member**, *Summer School on Computational Intelligence for Human and Smart Machine Co-learning*), Kaohsiung, Taiwan.
- 2019 **Technical Program Committee Member**, *International Workshop on Cognitive and Neural Systems (CNS 2019)*, Granada, Spain.
- 2018 **Program Committee Member**, *The 14th International Conference on Intelligent Environments (IE'18)*, Rome, Italy.
- 2018 **Program Committee Member**, *The 18th Annual UK Workshop on Computational Intelligence (UKCI 2018)*, Nottingham, United Kingdom.
- 2018 **Program Committee Member**, *The International Conference on Advanced Research in Computational Intelligence and Computing (ICARCIC 2018)*, Guntur, India.
- 2018 **Program Committee Member**, *The Seventh International Conference on Intelligent Systems and Applications (INTELLI 2018)*, Venice, Italy.
- 2018 **Program Committee Member**, *Special Session on Computational Intelligence in Software Engineering (CISE 2018)*, Porto, Portugal.
- 2017 **General Chair**, *2017 IEEE International Conference on Fuzzy Systems, (Fuzz-IEEE 2017)*, Naples, Italy.
General co-Chair: Bruno Siciliano, University of Naples Federico II
- 2017 **Program Committee Member**, *The 17th UK Workshop on Computational Intelligence (UKCI 2017)*), Cardiff, United Kingdom.
- 2017 **Program Committee Member**, *Joint 17th World Congress of International Fuzzy Systems Association and 9th International Conference on Soft Computing and Intelligent Systems (IFSA-SCIS 2017)*, Otsu, Japan.
- 2017 **Program Committee Member**, *1st International Workshop on Digital Knowledge Ecosystems*, Cetara (Salerno), Italy.
- 2017 **Program Committee Member**, *Genetic and Evolutionary Computation Conference 2017 (GECCO 2017)*, Berlin, Germany.
- 2017 **Program Committee Member**, *North American Fuzzy Information Processing Society Annual Conference 2017 (NAFIPS 2017)*, Cancun, Mexico.
- 2017 **Program Committee Member**, *The Fourth Euro-China Conference on Intelligent Data Analysis and Applications*, Málaga, Spain.
- 2017 **Special Session Organizer**, *Joint 17th World Congress of International Fuzzy Systems Association and 9th International Conference on Soft Computing and Intelligent Systems (IFSA-SCIS 2017)*, Otsu, Japan, Special Session Title: Fuzzy Markup Language: Principles and Applications.
- 2017 **Special Session Organizer**, *2017 IEEE International Conference on Fuzzy Systems (Fuzz-IEEE 2017)*, Naples, Italy, Special Session Title: Fuzzy Web Intelligence: Representation, Reasoning and Applications.
- 2016 **Special Session Organizer**, *2016 IEEE Symposium Series on Computational Intelligence (IEEE SSCI 2016)*, Athens, Greece, Special Session Title: Ambient Computational Intelligence.
- 2016 **Program Committee Member**, *Genetic and Evolutionary Computation Conference 2016 (GECCO 2016)*, Denver, CO, USA.
- 2016 **Program Committee Member**, *The 16th UK Workshop on Computational Intelligence (UKCI 2016)*, Lancaster, United Kingdom.
- 2016 **Program Committee Member**, *2016 IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2016)*, Budapest, Hungary.
- 2016 **Program Committee Member**, *North American Fuzzy Information Processing Society Annual Conference 2016 (NAFIPS 2016)*, El Paso, Texas, USA.

- 2016 **Program Committee Member**, *First Workshop on Data Mining in Business Process Management (DM-BPM 2017)*, Jeju, South Korea.
- 2015 **Program Committee Member**, *2015 IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2015)*, Hong Kong.
- 2015 **Program Committee Member**, *Genetic and Evolutionary Computation Conference 2015 (GECCO 2015)*, Madrid, Spain.
- 2015 **Program Committee Member**, *The 15th UK Workshop on Computational Intelligence (UKCI 2015)*, Exeter, United Kingdom.
- 2015 **Program Committee Member**, *2015 Conference of the International Fuzzy Systems Association and the European Society for Fuzzy Logic and Technology*, Gijón, Asturias, Spain.
- 2015 **Program Committee Member**, *Workshop on Business Processes in the Cloud*, Tartu, Estonia.
- 2015 **Program Committee Member**, *7th Computer Science & Electronic Engineering Conference, 24 – 25 September 2015*, Colchester, United Kingdom.
- 2015 **Program Committee Member**, *North American Fuzzy Information Processing Society Annual Conference 2015 (NAFIPS 2015)*, Redmond, Washington, USA.
- 2015 **Program Committee Member**, *The 19th Asia Pacific Symposium on Intelligent and Evolutionary Systems (IES 2015)*, Bangkok, Thailand.
- 2015 **Program Committee Member**, *The 19th Asia Pacific Symposium on Intelligent and Evolutionary Systems (IES 2015)*, Bangkok, Thailand.
- 2015 **Program Committee Member**, *2015 IEEE Symposium Series on Computational Intelligence (SSCI 2015)*, Cape Town, South Africa.
- 2015 **Program Committee Member**, *8th International Conference on Agents and Artificial Intelligence*, Rome, Italy.
- 2015 **Special Session Organizer**, *2015 IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2015)*, Hong Kong, Special Session Title: Cognitive Agents and Robotics for Human-Centric Systems: new models and challenges.
- 2015 **Workshop Organizer**, *2015 IEEE Workshop on Computational Intelligence Tools (IEEE WCIT'15) at 2015 IEEE Symposium Series on Computational Intelligence (SSCI 2015)*, Cape Town. South Africa.
- 2014 **Program Committee Member**, *The 14th UK Workshop on Computational Intelligence (UKCI 2014)*, Bradford, United Kingdom.
- 2014 **Program Committee Member**, *Genetic and Evolutionary Computation Conference 2014 (GECCO 2014)*, Vancouver, Canada.
- 2014 **Conference Track Organizer**, *The Eighth International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS-2014)*, Birmingham, United Kingdom, Track Title: Smart Spaces and Intelligent Environments.
Organized with: Hani Hagrass, University of Essex, United Kingdom
- 2014 **Program Committee Member**, *2014 International Conference on Behavioral, Economic, and Socio-Cultural Computing (BESC 2014)*, Shanghai, China.
- 2014 **Program Committee Member**, *2014 IEEE Congress on Evolutionary Computation (IEEE CEC 2014)*, Beijing, China.
- 2014 **Program Committee Member**, *2014 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2014)*, San Diego, USA.
- 2014 **Program Committee Member**, *The 18th Asia Pacific Symposium on Intelligent and Evolutionary Systems (IES 2014)*, Singapore.
- 2014 **Program Committee Member**, *The Interactive Technologies and Games (ITAG) Conference 2014*, Nottingham, United Kingdom.

- 2014 **Special Session Organizer**, *2014 IEEE World Congress on Computational Intelligence (WCCI 2014)*, Beijing, China, Special Session Title: Computational Intelligence for Ubiquitous and Pervasive Computing.
- 2014 **Special Session Organizer**, *2014 IEEE World Congress on Computational Intelligence (WCCI 2014)*, Beijing, China, Special Session Title: Fuzzy Ontologies and Fuzzy Markup Language Applications.
- 2014 **Special Session Organizer**, *2014 IEEE Symposium Series on Computational Intelligence (IEEE SSCI 2014)*, Orlando, Florida, Special Session Title: Fuzzy Ontologies and Fuzzy Markup Language Applications.
- 2013 **Program Committee Member**, *The 13th UK Workshop on Computational Intelligence (UKCI 2013)*, Surrey, United Kingdom.
- 2013 **Program Committee Member**, *Genetic and Evolutionary Computation Conference 2013 (GECCO 2013)*, Amsterdam, The Netherlands.
- 2013 **Program Committee Member**, *2013 IFSA World Congress NAFIPS Annual Meeting*, Edmonton, Canada.
- 2013 **Program Committee Member**, *Third IFIP International Workshop on Security and Cognitive Informatics for Homeland Defense (SeCIHD 2013)*, University of Regensburg, Germany.
- 2013 **Program Committee Member**, *2013 IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2013)*, Manchester, United Kingdom.
- 2013 **Special Session Organizer**, *The 26th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA-AIE 2013)*, Amsterdam, the Netherlands, Special Session Title: Business Process Intelligence.
- 2013 **Special Session Organizer**, *2013 IEEE International Conference on Fuzzy Systems (Fuzz-IEEE 2013)*, Hyderabad, India, Special Session Title: Fuzzy Ontologies and Fuzzy Markup Language Applications.
- 2013 **Competition Organizer**, *2013 IEEE International Conference on Fuzzy Systems (Fuzz-IEEE 2013)*, Hyderabad, India, Special Competition Title: Fuzzy Control Competition.
- 2012 **Program Committee Member**, *International Conference on Autonomous and Intelligent Systems (AIS 2012)*, Aveiro, Portugal.
- 2012 **Program Committee Member**, *The 12th UK Workshop on Computational Intelligence (UKCI 2012)*, Edinburgh, Scotland.
- 2012 **Program Committee Member**, *Genetic and Evolutionary Computation Conference 2012 (GECCO 2012)*, Philadelphia, USA.
- 2012 **Special Session Organizer**, *2012 IEEE World Congress on Computational Intelligence (IEEE WCCI 2012)*, Brisbane, Australia, Special Session Title: Fuzzy Ontologies and Fuzzy Markup Language Applications.
- 2011 **Program Committee Member**, *Genetic and Evolutionary Computation Conference 2011 (ACM GECCO 2011)*, Dublin, Ireland.
- 2011 **Program Committee Member**, *The 11th International Conference on Intelligent Systems Design and Applications (ISDA 2011)*, Córdoba, Spain.
- 2011 **Program Committee Member**, *The 11th UK Workshop on Computational Intelligence (UKCI 2011)*, Manchester, United Kingdom.
- 2011 **Workshop Organizer**, *2011 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2011)*, Taipei, Taiwan, Talk Title: Workshop on Standards in Computational Intelligence. Organized with Bruno Di Stefano, Nuptek Ltd., Canada, and Plamen Angelov, Lancaster University, United Kingdom
- 2011 **Special Session Organizer**, *2011 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2011)*, Taipei, Taiwan, Session Title: Fuzzy Ontologies and Fuzzy Markup Language Applications.

- 2010 **Special Session Organizer**, *2010 IEEE World Congress on Computational Intelligence (IEEE WCCI 2010)*, Barcelona, Spain, Session Title: Fuzzy Ontologies and Fuzzy Markup Language Applications.
- 2010 **Program Committee Member**, *The 11th UK Workshop on Computational Intelligence (UKCI 2010)*, Manchester, United Kingdom.

Talks

- 2019 **Speaker**, *2019 IEEE Conference on Fuzzy Systems, Fuzz-IEEE 2019*, New Orleans, USA.
- 2018 **Speaker**, *2018 IEEE Conference on Fuzzy Systems, Fuzz-IEEE 2018*, Rio de Janeiro, Brasil.
- 2016 **Speaker**, *016 IEEE Conference on Fuzzy Systems, Fuzz-IEEE 2016*, Vancouver, Canada.
- 2016 **Tutorial Speaker**, *2016 IEEE World Congress on Computational Intelligence (IEEE WCCI 2016)*, Vancouver, Canada, Tutorial Title: Type-2 Fuzzy Ontology and Fuzzy Markup Language for Real-World Applications .
- 2015 **Speaker**, *2015 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2015)*, Hong Kong.
- 2015 **Speaker**, *2015 IEEE Conference on Fuzzy Systems, Fuzz-IEEE 2015*, Istanbul, Turkey.
- 2014 **Speaker**, *2014 IEEE World Congress on Computational Intelligence (WCCI 2014)*, Beijing, China.
- 2013 **Speaker**, *2013 IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2013)*, Manchester, United Kingdom.
- 2013 **Speaker**, *IEEE Symposium on Intelligent Agents (IA) at IEEE Symposium Series on Computational Intelligence (IEEE SSCI 2013)*, Singapore.
- 2012 **Speaker**, *2012 IEEE World Congress on Computational Intelligence (WCCI 2012)*, Brisbane, Australia.
- 2012 **Speaker**, *UK Workshop on Computational Intelligence 2012 (UKCI 2012)*, Edinburgh, Scotland.
- 2011 **Speaker**, *Symposium on Intelligent Agents (IA) at 2011 IEEE Symposium Series on Computational Intelligence (IEEE SSCI 2011)*, Paris, France.
- 2011 **Tutorial Speaker**, *Symposium on Intelligent Agents (IA) at 2011 IEEE Symposium Series on Computational Intelligence (IEEE SSCI 2011)*, Paris, France, Tutorial Title: Fuzzy Markup Language: A new solution for transparent intelligent agents.
- 2011 **Speaker**, *2011 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2011)*, Taipei, Taiwan.
- 2010 **Speaker**, *2010 IEEE Conference on Computational Intelligence in Games (IEEE CIG 2010)*, Copenhagen, Denmark.
- 2010 **Speaker**, *2010 IEEE World Congress on Computational Intelligence (IEEE WCCI 2010)*, Barcelona, Spain.
- 2009 **Speaker**, *Symposium on Intelligent Agents (IA) at 2009 IEEE Symposium Series on Computational Intelligence (IEEE SSCI 2009)*, Nashville, Tennessee, USA.
- 2009 **Speaker**, *2009 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2009)*, Jeju Island, South Korea.
- 2009 **Speaker**, *2009 IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology*, Milan, Italy.
- 2008 **Speaker**, *2008 IEEE World Congress on Computational Intelligence (IEEE WCCI 2008)*, Hong Kong.
- 2008 **Speaker**, *2008 International Federation for Information Processing, IFIP 20th World Computer Congress, Open Source Development, Communities and Quality*, Milan, Italy.
- 2005 **Speaker**, *2005 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2005)*, Reno, Nevada, USA.

- 2005 **Speaker**, *2005 IEEE International Symposium on Industrial Electronics (IEEE ISIE 2005)*, Dubrovnik, Croatia.
- 2004 **Speaker**, *2004 IEEE International Conference on Industrial Informatics (IEEE INDIN 2004)*, Berlin, Germany.
- 2004 **Speaker**, *2004 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2004)*, Budapest, Hungary.

Member of Boards for Appointments and Promotions

- 2021 **Chairman of Recruiting Committee**, *appointment to Research Scholar – Candidate Name: Gianluca Sabella*, University of Naples Federico II, Ref: BO.RI.1-2021.
Research Fund Manager: Prof. Guido Russo
- 2021 **Chairman of Recruiting Committee**, *appointment to Research Scholar – Candidate Name: Nicola Mattera*, University of Naples Federico II, Ref: BO.RI.8-2021.
Research Fund Manager: Prof. Guido Russo
- 2021 **Chairman of Recruiting Committee**, *appointment to Research Scholar – Candidate Name: Augusto Tortora*, University of Naples Federico II, Ref: BO.RI.12-2021.
Research Fund Manager: Prof. Guido Russo
- 2021 **Member of Recruiting Committee**, *appointment to Research Fellow – Candidate Name: Gianluca Passarelli*, National Research Council (CNR), Ref: SPIN AR 002/2021 NA.
Research Fund Manager: Dr. Giovanni Cantele
- 2021 **Member of Recruiting Committee**, *appointment to Research Scholar – Candidate Name: Daniela De Martino*, UrbanEco Research Centre, University of Naples Federico II, Ref: AVATEA.
Research Fund Manager: Prof. Silvia Rossi
- 2020 **Alternative Member of Recruiting Committee**, *appointment to Research Scholar*, Interdepartmental Center For Advances In Robotic Surgery (ICAROS), Ref: ICAROS/ASS:Ric. 1/2020.
Research Fund Manager: Prof. Bruno Siciliano
- 2019 **Chairman of Recruiting Committee**, *appointment to Research Fellow – Candidate Name: Ida Bifulco*, University of Naples Federico II, Ref: 15-2019/TIPB/DF.
Research Fund Manager: Prof. Aldo Zollo
- 2019 **Chairman of Recruiting Committee**, *eligibility for inter-university mobility – Candidate Name: Paolo Fioretto*, from University of Campania Luigi Vanvitelli to University of Naples Federico II, Ref: DR n.918/14.
- 2018 **Member of Recruiting Committee**, *appointment to Research Scholar – Candidate Name: Elisa Analdi*, University of Naples Federico II, Ref: BO.RI.1-2018.
Research Fund Manager: Prof. Giovanni Acampora
- 2018 **Member of Recruiting Committee**, *appointment to Research Scholar – Candidate Name: Claudio Pipicelli*, University of Naples Federico II, Ref: BO.RI.32-2017.
Research Fund Manager: Prof. Giovanni Acampora
- 2018 **Member of Recruiting Committee**, *appointment to Research Scholar – Candidate Name: Martina Ruocco*, University of Naples Federico II, Ref: BO.RI.33-2017.
Research Fund Manager: Prof. Giovanni Acampora
- 2018 **Member of Recruiting Committee**, *appointment to Research Scholar – Candidate Name: Martina Ruocco*, University of Naples Federico II, Ref: BO.RI.15-2018.
Research Fund Manager: Prof. Giovanni Acampora
- 2017 **Chairman of Recruiting Committee**, *appointment to Assistant Professor (RTDa) – Candidate Name: Mariacarla Staffa*, University of Naples Federico II, Ref: 2_RTDA_2017_25.

- 2014 **External Examiner**, *re-appointment and promotion to Senior Teaching Fellow – Candidate Name: YIM Chun Pang*, City University of Hong Kong.
Invited by Prof. Jeffrey Shaw

Participation in Academic Governance Activities

- 2021 – present **Steering Committee Member of Centro di Ateneo per i Servizi Informatici (CSI@UniNA), nominated by the Board of the Department Directors of Scuola Politecnica e delle Scienze di Base**, *University of Naples Federico II*.
- April 2021 **Participation in Research Assessment Frameworks**, *Valutazione della Qualità della Ricerca 2015-2019 (VQR 2015-2019)*, University of Naples Federico II, Italy.
- February 2021 **Participation in Research Assessment Frameworks**, *Research Excellence Framework 2021 (REF 2021)*, Nottingham Trent University, United Kingdom.
- June 2020 – Present **Coordinator**, *Teaching Plan “Intelligent Systems” - M.Sc. Data Science*, Department of Physics “Ettore Pancini”, University of Naples Federico II, Italy.
- 2020 – present **Responsible for the Framework Agreement between University of Naples Federico II and Accademia Italiana di Scienze Forensi**.
- 2019 – present **Responsible for the University Framework Agreement between University of Naples Federico II and CAP GEMINI**.
- 2017 – present **Member of Scientific Committee of the Interdepartmental Center for Advances in RObotic Surgery: I.C.A.R.O.S.**
- 2016 **Responsible for International Academic Relationships. Agreement Erasmus+ Traineeship**, *Nottingham Trent University (United Kingdom) with University of Molise (Italy)*.
- 2015 **Responsible for International Academic Relationships. Agreement Erasmus+ Traineeship**, *Nottingham Trent University (United Kingdom) with University of Sannio (Italy)*.
- 2014 – 2017 **External Examiner, Artificial Intelligence (B6AINT / AINTPG)**, *Plymouth University*, United Kingdom.
- 2014 – 2016 **Tutor for Student Work Placement**, *Nottingham Trent University*, United Kingdom.
- 2014 – 2016 **Exam Board Member**, *Nottingham Trent University, UK*.
- 2014 **Responsible for the classification of scientific journals for the Research Excellence Framework 2014 for sector B11: Computer Science and Informatics.**, *Nottingham Trent University, UK*.

Publications

In Journal Articles

- 2021 R. Ricciardi, G. Mettivier, M. Staffa, A. Sarno, G. Acampora, S. Minelli, A. Santoro, E. Antignani, A. Orientale, I.A.M. Pilotti, V. Santangelo, P. D’Andria, and P. Russo. A deep learning classifier for digital breast tomosynthesis. *Phys. Medica*, volume 83, pages 184–193. Elsevier, 2021.
- 2021 Francesco Piccialli, Fabio Giampaolo, Edoardo Prezioso, David Camacho, and Giovanni Acampora. Artificial intelligence and healthcare: Forecasting of medical bookings through multi-source time-series fusion. *Inform. Fusion*, volume 74, pages 1–16, 2021.
- 2021 Giovanni Acampora and Autilia Vitiello. Implementing evolutionary optimization on actual quantum processors. *Inf. Sci.*, volume 575, pages 542–562, 2021.
- 2021 Giovanni Acampora, Pasquale Trinchese, and Autilia Vitiello. A dataset of eeg signals from a single-channel ssvp-based brain computer interface. *Data Brief*, volume 35, page 106826, 2021.
- 2021 Giovanni Acampora and Roberto Schiattarella. Deep neural networks for quantum circuit mapping. *Neural. Comput. Appl.*, pages 1–21. Springer, 2021.

- 2021 Giovanni Acampora, Vittorio Cataudella, Pratibha Raghupati Hegde, Procolo Lucignano, Gianluca Passarelli, and Autilia Vitiello. Memetic algorithms for mapping p -body interacting systems in effective quantum 2-body hamiltonians. *Appl. Soft Comput.*, volume 110, page 107634, 2021.
- 2020 Silvia Rossi, Giovanni Acampora, and Mariacarla Staffa. Working together: a DBN approach for individual and group activity recognition. *J. Ambient Intell. Humaniz. Comput.*, volume 11, pages 6007–6019, 2020.
- 2020 Chang-Shing Lee, Mei-Hui Wang, Yi-Lin Tsai, Wei-Shan Chang, Marek Reformat, Giovanni Acampora, and Naoyuki Kubota. Fml-based reinforcement learning agent with fuzzy ontology for human-robot cooperative edutainment. *Int. J. Uncertain. Fuzziness Knowl. Based Syst.*, volume 28, pages 1023–1060, 2020.
- 2020 Giovanni Acampora, Paolo Anastasio, Michele Risi, Genoveffa Tortora, and Autilia Vitiello. Automatic event geo-location in twitter. *IEEE Access*, volume 8, pages 128213–128223, 2020.
- 2019 José M. Soto-Hidalgo, Autilia Vitiello, José Maria Alonso, Giovanni Acampora, and Jesús Alcalá-Fdez. Design of fuzzy controllers for embedded systems with JFML. *Int. J. Comput. Intell. Syst.*, volume 12, pages 204–214, 2019.
- 2019 María Martínez Rojas, Gregorio Corpas, Autilia Vitiello, Giovanni Acampora, and José Manuel Soto Hidalgo. Estudio del paradigma internet de las cosas y tecnologías inalámbricas como arquitectura base de captación de datos en las fases de ejecución y mantenimiento de los proyectos de construcción. *Enseñanza y aprendizaje de ingeniería de computadores: Revista de Experiencias Docentes en Ingeniería de Computadores*, pages 87–96. Departamento de Arquitectura y Tecnología de Computadores, 2019.
- 2019 Abduladem Aljamel, Taha Osman, Giovanni Acampora, Autilia Vitiello, and Ziqi Zhang. Smart information retrieval: Domain knowledge centric optimization approach. *IEEE Access*, volume 7, pages 4167–4183, 2019.
- 2019 Giovanni Acampora, Vittorio Cataudella, P. R. Hegde, P. Lucignano, Gianluca Passarelli, and Autilia Vitiello. An evolutionary strategy for finding effective quantum 2-body hamiltonians of p -body interacting systems. *Quantum Mach. Intell.*, volume 1, pages 113–122, 2019.
- 2019 Giovanni Acampora. Quantum machine intelligence. *Quantum Mach. Intell.*, volume 1, pages 1–3, 2019.
- 2018 José M. Soto-Hidalgo, José Maria Alonso, Giovanni Acampora, and Jesús Alcalá-Fdez. JFML: A java library to design fuzzy logic systems according to the IEEE std 1855-2016. *IEEE Access*, volume 6, pages 54952–54964, 2018.
- 2018 Giovanni Acampora, Francisco Herrera, Genoveffa Tortora, and Autilia Vitiello. A multi-objective evolutionary approach to training set selection for support vector machine. *Knowl. Based Syst.*, volume 147, pages 94–108, 2018.
- 2017 Alessandro G. Di Nuovo, Giovanni Acampora, and Matthew Schlesinger. Guest editorial cognitive agents and robots for human-centered systems. *IEEE Trans. Cogn. Dev. Syst.*, volume 9, pages 1–4, 2017.
- 2017 Giovanni Acampora, Autilia Vitiello, Bruno N. Di Stefano, Wil M. P. van der Aalst, Christian W. Günther, and Eric Verbeek. IEEE 1849: The XES standard: The second IEEE standard sponsored by IEEE computational intelligence society [society briefs]. *IEEE Comput. Intell. Mag.*, volume 12, pages 4–8, 2017.
- 2017 Giovanni Acampora, Bruno Siciliano, Hani Hagraas, and Francisco Herrera. Conference report on 2017 IEEE international conference on fuzzy systems (FUZZ-IEEE 2017) [conference reports]. *IEEE Comput. Intell. Mag.*, volume 12, pages 6–8, 2017.
- 2016 Autilia Vitiello, Ciro Di Nunzio, Luciano Garofano, Maurizio Saliva, Pietrantonio Ricci, and Giovanni Acampora. Bloodstain pattern analysis as optimisation problem. *Forensic Sci. Int.*, volume 266, pages e79–e85. Elsevier, 2016.

- 2016 Georgina Cosma and Giovanni Acampora. A computational intelligence approach to efficiently predicting review ratings in e-commerce. *Appl. Soft Comput.*, volume 44, pages 153–162, 2016.
- 2016 Enrique Muñoz Ballester, José Manuel Cadenas, Yew-Soon Ong, and Giovanni Acampora. Memetic music composition. *IEEE Trans. Evol. Comput.*, volume 20, pages 1–15, 2016.
- 2016 Giovanni Acampora, Bruno N. Di Stefano, and Autilia Vitiello. IEEE 1855tm: The first IEEE standard sponsored by IEEE computational intelligence society [society briefs]. *IEEE Comput. Intell. Mag.*, volume 11, pages 4–6, 2016.
- 2016 Giovanni Acampora, Daniyal M. Al-Ghazzawi, Hani Hagrass, and Autilia Vitiello. An interval type-2 fuzzy logic based framework for reputation management in peer-to-peer e-commerce. *Inf. Sci.*, volume 333, pages 88–107, 2016.
- 2015 Giovanni Acampora, Witold Pedrycz, and Autilia Vitiello. A competent memetic algorithm for learning fuzzy cognitive maps. *IEEE Trans. Fuzzy Syst.*, volume 23, pages 2397–2411, 2015.
- 2015 Giovanni Acampora, Pasquale Foggia, Alessia Saggese, and Mario Vento. A hierarchical neuro-fuzzy architecture for human behavior analysis. *Inf. Sci.*, volume 310, pages 130–148, 2015.
- 2014 Giovanni Acampora, Witold Pedrycz, and Athanasios V. Vasilakos. Efficient modeling of MIMO systems through timed automata based neuro-fuzzy inference engine. *Int. J. Approx. Reason.*, volume 55, pages 1336–1356, 2014.
- 2013 Giovanni Acampora and Autilia Vitiello. Interoperable neuro-fuzzy services for emotion-aware ambient intelligence. *Neurocomputing*, volume 122, pages 3–12, 2013.
- 2013 Giovanni Acampora, Vincenzo Loia, and Autilia Vitiello. Enhancing ontology alignment through a memetic aggregation of similarity measures. *Inf. Sci.*, volume 250, pages 1–20, 2013.
- 2013 Giovanni Acampora, Matteo Gaeta, and Stefania Tomasiello. An extended functional network model and its application for a gas sensing system. *Soft Comput.*, volume 17, pages 897–908, 2013.
- 2013 Giovanni Acampora, Diane J. Cook, Parisa Rashidi, and Athanasios V. Vasilakos. A survey on ambient intelligence in healthcare. *Proc. IEEE*, volume 101, pages 2470–2494, 2013.
- 2012 Giovanni Acampora, Vincenzo Loia, and Autilia Vitiello. Improving game bot behaviours through timed emotional intelligence. *Knowl. Based Syst.*, volume 34, pages 97–113, 2012.
- 2012 Giovanni Acampora, Vincenzo Loia, Saverio Salerno, and Autilia Vitiello. A hybrid evolutionary approach for solving the ontology alignment problem. *Int. J. Intell. Syst.*, volume 27, pages 189–216, 2012.
- 2012 Giovanni Acampora, Chang-Shing Lee, Autilia Vitiello, and Mei-Hui Wang. Evaluating cardiac health through semantic soft computing techniques. *Soft Comput.*, volume 16, pages 1165–1181, 2012.
- 2012 Giovanni Acampora and Chang-Shing Lee. Special issue on fuzzy ontologies and fuzzy markup language applications. *Soft Comput.*, volume 16, pages 1107–1108, 2012.
- 2012 Giovanni Acampora. Exploiting timed automata based fuzzy controllers for designing adaptive intrusion detection systems. *Soft Comput.*, volume 16, pages 1183–1196, 2012.
- 2011 Giovanni Acampora, Vincenzo Loia, and Autilia Vitiello. Distributing emotional services in ambient intelligence through cognitive agents. *Serv. Oriented Comput. Appl.*, volume 5, pages 17–35, 2011.
- 2011 Giovanni Acampora and Vincenzo Loia. On the temporal granularity in fuzzy cognitive maps. *IEEE Trans. Fuzzy Syst.*, volume 19, pages 1040–1057, 2011.
- 2011 Giovanni Acampora, Matteo Gaeta, and Vincenzo Loia. Hierarchical optimization of personalized experiences for e-learning systems through evolutionary models. *Neural Comput. Appl.*, volume 20, pages 641–657, 2011.

- 2011 Giovanni Acampora, Matteo Gaeta, and Vincenzo Loia. Combining multi-agent paradigm and memetic computing for personalized and adaptive learning experiences. *Comput. Intell.*, volume 27, pages 141–165, 2011.
- 2011 Giovanni Acampora, José Manuel Cadenas, Vincenzo Loia, and Enrique Muñoz Ballester. A multi-agent memetic system for human-based knowledge selection. *IEEE Trans. Syst. Man Cybern. Part A*, volume 41, pages 946–960, 2011.
- 2011 Giovanni Acampora, José Manuel Cadenas, Vincenzo Loia, and Enrique Muñoz Ballester. Achieving memetic adaptability by means of agent-based machine learning. *IEEE Trans. Ind. Informatics*, volume 7, pages 557–569, 2011.
- 2011 Andrea F. Abate, Giovanni Acampora, and Stefano Ricciardi. An interactive virtual guide for the AR based visit of archaeological sites. *J. Vis. Lang. Comput.*, volume 22, pages 415–425, 2011.
- 2010 Mei-Hui Wang, Chang-Shing Lee, Kuang-Liang Hsieh, Chin-Yuan Hsu, Giovanni Acampora, and Chong-Ching Chang. Ontology-based multi-agents for intelligent healthcare applications. *J. Ambient Intell. Humaniz. Comput.*, volume 1, pages 111–131, 2010.
- 2010 Chang-Shing Lee, Mei-Hui Wang, Giovanni Acampora, Chin-Yuan Hsu, and Hani Hagraas. Diet assessment based on type-2 fuzzy ontology and fuzzy markup language. *Int. J. Intell. Syst.*, volume 25, pages 1187–1216, 2010.
- 2010 Giovanni Acampora, Vincenzo Loia, and Matteo Gaeta. Exploring e-learning knowledge through ontological memetic agents. *IEEE Comput. Intell. Mag.*, volume 5, pages 66–77, 2010.
- 2010 Giovanni Acampora, Matteo Gaeta, Vincenzo Loia, and Athanasios V. Vasilakos. Interoperable and adaptive fuzzy services for ambient intelligence applications. *ACM Trans. Auton. Adapt. Syst.*, volume 5, pages 8:1–8:26, 2010.
- 2010 Andrea F. Abate, Giovanni Acampora, Vincenzo Loia, Stefano Ricciardi, and Athanasios V. Vasilakos. A pervasive visual-haptic framework for virtual delivery training. *IEEE Trans. Inf. Technol. Biomed.*, volume 14, pages 326–334, 2010.
- 2008 Giovanni Acampora and Vincenzo Loia. A proposal of ubiquitous fuzzy computing for ambient intelligence. *Inf. Sci.*, volume 178, pages 631–646, 2008.
- 2005 Giovanni Acampora and Vincenzo Loia. Using fml and fuzzy technology in adaptive ambient intelligence environments. *Int. J. Comput. Intell. Research*, volume 1, pages 171–182, 2005.
- 2005 Giovanni Acampora and Vincenzo Loia. Fuzzy control interoperability and scalability for adaptive domotic framework. *IEEE Trans. Ind. Informatics*, volume 1, pages 97–111, 2005.

In Conference Proceedings

- 2021 Bhavesh Pandya, Amir Pourabdollah, Ahmad Lotfi, and Giovanni Acampora. Developing a cloud-based service-oriented architecture for fuzzy logic systems. In *30th IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2021, Luxembourg, July 11-14, 2021*, pages 1–8. IEEE, 2021.
- 2021 Acampora Giovanni, Roberto Schiattarella, and Autilia Vitiello. Quantum genetic selection. In *GECCO '21: Genetic and Evolutionary Computation Conference, Lille, France, July 10-14, 2021*. ACM, 2021.
- 2021 Giovanni Acampora and Autilia Vitiello. Error mitigation in quantum measurement through fuzzy c-means clustering. In *30th IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2021, Luxembourg, July 11-14, 2021*, pages 1–6. IEEE, 2021.
- 2021 Giovanni Acampora, Ferdinando Di Martino, Roberto Schiattarella, and Autilia Vitiello. Measuring distance between quantum states by fuzzy similarity operators. In *30th IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2021, Luxembourg, July 11-14, 2021*, pages 1–6. IEEE, 2021.

- 2021 Giovanni Acampora, Michele Grossi, and Autilia Vitiello. Genetic algorithms for error mitigation in quantum measurement. In *IEEE Congress on Evolutionary Computation, CEC 2021, Krakow, Poland, June 28- July 1, 2021*, pages 1–7. IEEE, 2021.
- 2020 Juan Carlos Gámez-Granados, Francisco J. Rodríguez-Lozano, Giovanni Acampora, Chang-Shing Lee, and José Manuel Soto-Hidalgo. Jkinect: A new java software for designing and assessing gross motor activities in children with autism based on JFML. In *29th IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2020, Glasgow, UK, July 19-24, 2020*, pages 1–8. IEEE, 2020.
- 2020 Giovanni Acampora, Autilia Vitiello, and Roberta Siciliano. MIDA: a web tool for missing data imputation based on a boosted and incremental learning algorithm. In *29th IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2020, Glasgow, UK, July 19-24, 2020*, pages 1–6. IEEE, 2020.
- 2020 Giovanni Acampora and Autilia Vitiello. Tssweb: a web tool for training set selection. In *29th IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2020, Glasgow, UK, July 19-24, 2020*, pages 1–7. IEEE, 2020.
- 2020 Giovanni Acampora, Pasquale Trinchese, and Autilia Vitiello. Classifying EEG signals in single-channel ssvp-based bcis through support vector machine. In *2020 IEEE International Conference on Systems, Man, and Cybernetics, SMC 2020, Toronto, ON, Canada, October 11-14, 2020*, pages 2305–2310. IEEE, 2020.
- 2019 Juan Carlos Gámez-Granados, José Manuel Soto-Hidalgo, Giovanni Acampora, Antonio González Muñoz, and Raúl Pérez. A software implementation of the fuzzy rule learning algorithm nslvord for ordinal classification into KEEL. In *2019 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2019, New Orleans, LA, USA, June 23-26, 2019*, pages 1–6. IEEE, 2019.
- 2019 Giovanni Acampora, Pasquale Trinchese, and Autilia Vitiello. Applying logistic regression for classification in single-channel ssvp-based bcis. In *2019 IEEE International Conference on Systems, Man and Cybernetics, SMC 2019, Bari, Italy, October 6-9, 2019*, pages 33–38. IEEE, 2019.
- 2019 Giovanni Acampora, Jesús Alcalá-Fdez, Roberta Siciliano, José M. Soto-Hidalgo, and Autilia Vitiello. Visualjfm1: A visual environment for designing fuzzy systems according to IEEE std 1855-2016. In *2019 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2019, New Orleans, LA, USA, June 23-26, 2019*, pages 1–6. IEEE, 2019.
- 2018 Mariacarla Staffa, Mariangela Berardinelli, Giovanni Acampora, Maurizio Giordano, Massimo De Gregorio, and Fanny Ficuciello. A weightless neural network as a classifier to translate EEG signals into robotic hand commands. In *27th IEEE International Symposium on Robot and Human Interactive Communication, RO-MAN 2018, Nanjing, China, August 27-31, 2018*, pages 487–490. IEEE, 2018.
- 2018 Silvia Rossi, Roberto Capasso, Giovanni Acampora, and Mariacarla Staffa. A multimodal deep learning network for group activity recognition. In *2018 International Joint Conference on Neural Networks, IJCNN 2018, Rio de Janeiro, Brazil, July 8-13, 2018*, pages 1–6. IEEE, 2018.
- 2018 Amir Pourabdollah, Christian Wagner, Giovanni Acampora, and Ahmad Lotfi. Fuzzy logic as-a-service for ambient intelligence environments. In *2018 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2018, Rio de Janeiro, Brazil, July 8-13, 2018*, pages 1–7. IEEE, 2018.
- 2018 Francisco Jesus Arcos, José Manuel Soto-Hidalgo, Autilia Vitiello, Giovanni Acampora, and Jesús Alcalá-Fdez. Interoperability for embedded systems in JFML software: An arduino-based implementation. In *2018 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2018, Rio de Janeiro, Brazil, July 8-13, 2018*, pages 1–8. IEEE, 2018.

- 2018 Francisco Jesús Arcos, José Manuel Soto Hidalgo, Autilia Vitiello, Giovanni Acampora, and Jesús Alcalá Fernández. Nuevo módulo de conexión inalámbrico vía bluetooth con arduino en la librería jfml. In *XVIII Conferencia de la Asociación Española para la Inteligencia Artificial (CAEPIA 2018) 23-26 de octubre de 2018 Granada, España*, pages 233–238. Asociación Española para la Inteligencia Artificial (AEPIA), 2018.
- 2018 Giovanni Acampora, Federico Luongo, and Autilia Vitiello. Quantum implementation of fuzzy systems through grover’s algorithm. In *2018 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2018, Rio de Janeiro, Brazil, July 8-13, 2018*, pages 1–8. IEEE, 2018.
- 2018 Giovanni Acampora, Pasquale D’Alterio, and Autilia Vitiello. Learning type-2 fuzzy rule-based systems through memetic algorithms. In *2018 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2018, Rio de Janeiro, Brazil, July 8-13, 2018*, pages 1–7. IEEE, 2018.
- 2018 Giovanni Acampora, Mario Luca Bernardi, Marta Cimitile, Genoveffa Tortora, and Autilia Vitiello. A fuzzy clustering-based approach to study malware phylogeny. In *2018 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2018, Rio de Janeiro, Brazil, July 8-13, 2018*, pages 1–8. IEEE, 2018.
- 2017 Autilia Vitiello, Giovanni Acampora, Mariacarla Staffa, Bruno Siciliano, and Silvia Rossi. A neuro-fuzzy-bayesian approach for the adaptive control of robot proxemics behavior. In *2017 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2017, Naples, Italy, July 9-12, 2017*, pages 1–6. IEEE, 2017.
- 2017 Autilia Vitiello, Giovanni Acampora, Francesco Cutugno, Petra Wagner, and Antonio Origlia. An adaptive neuro-fuzzy inference system for the qualitative study of perceptual prominence in linguistics. In *2017 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2017, Naples, Italy, July 9-12, 2017*, pages 1–6. IEEE, 2017.
- 2017 Pasquale D’Alterio, Giovanni Acampora, and Silvia Rossi. Analyzing social networks activities to deploy entertainment services in hri-based smart environments. In *2017 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2017, Naples, Italy, July 9-12, 2017*, pages 1–6. IEEE, 2017.
- 2017 Giovanni Acampora and Autilia Vitiello. Extending IEEE std 1855 for designing arduino™-based fuzzy systems. In *2017 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2017, Naples, Italy, July 9-12, 2017*, pages 1–6. IEEE, 2017.
- 2017 Giovanni Acampora, Genoveffa Tortora, and Autilia Vitiello. An intelligent framework for predicting state war engagement from territorial data. In Man Ho Allen Au, Arcangelo Castiglione, Kim-Kwang Raymond Choo, Francesco Palmieri, and Kuan-Ching Li, editors, *Green, Pervasive, and Cloud Computing - 12th International Conference, GPC 2017, Cetara, Italy, May 11-14, 2017, Proceedings*, volume 10232 of *Lecture Notes in Computer Science*, pages 712–721, 2017.
- 2017 Giovanni Acampora, Alessandro G. Di Nuovo, Bruno Siciliano, and Autilia Vitiello. A comparison of fuzzy approaches for training a humanoid robotic football player. In *2017 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2017, Naples, Italy, July 9-12, 2017*, pages 1–6. IEEE, 2017.
- 2017 Giovanni Acampora, Mario Luca Bernardi, Marta Cimitile, Genoveffa Tortora, and Autilia Vitiello. A fuzzy-based autoscaling approach for process centered cloud systems. In *2017 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2017, Naples, Italy, July 9-12, 2017*, pages 1–8. IEEE, 2017.
- 2016 Giovanni Acampora and Autilia Vitiello. jmeme: A java library for designing competent memetic algorithms. In *2016 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2016, Vancouver, BC, Canada, July 24-29, 2016*, pages 386–393. IEEE, 2016.

- 2016 Giovanni Acampora, Genoveffa Tortora, and Autilia Vitiello. Comparison of multi-objective evolutionary algorithms for prototype selection in nearest neighbor classification. In *2016 IEEE Symposium Series on Computational Intelligence, SSCI 2016, Athens, Greece, December 6-9, 2016*, pages 1–8. IEEE, 2016.
- 2016 Giovanni Acampora, Genoveffa Tortora, and Autilia Vitiello. Applying SPEA2 to prototype selection for nearest neighbor classification. In *2016 IEEE International Conference on Systems, Man, and Cybernetics, SMC 2016, Budapest, Hungary, October 9-12, 2016*, pages 3924–3929. IEEE, 2016.
- 2016 Giovanni Acampora, Davide Caruso, Alfredo Vaccaro, and Autilia Vitiello. A search group algorithm for optimal voltage regulation in power systems. In *IEEE Congress on Evolutionary Computation, CEC 2016, Vancouver, BC, Canada, July 24-29, 2016*, pages 3662–3669. IEEE, 2016.
- 2015 Abduladem Aljamel, Taha Osman, and Giovanni Acampora. Domain-specific relation extraction. In Ana L. N. Fred, Jan L. G. Dietz, David Aveiro, Kecheng Liu, and Joaquim Filipe, editors, *KDIR 2015 - Proceedings of the International Conference on Knowledge Discovery and Information Retrieval, part of the 7th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management (IC3K 2015), Volume 1, Lisbon, Portugal, November 12-14, 2015*, pages 92–103. SciTePress, 2015.
- 2015 Giovanni Acampora, Autilia Vitiello, Ciro Di Nunzio, Maurizio Saliva, and Luciano Garofano. Towards automatic bloodstain pattern analysis through cognitive robots. In *2015 IEEE International Conference on Systems, Man, and Cybernetics, Kowloon Tong, Hong Kong, October 9-12, 2015*, pages 2447–2452. IEEE, 2015.
- 2015 Giovanni Acampora and Autilia Vitiello. A multiple statistical comparison of nature-inspired algorithms for learning fuzzy cognitive maps. In Adnan Yazici, Nikhil R. Pal, Uzay Kaymak, Trevor Martin, Hisao Ishibuchi, Chin-Teng Lin, João M. C. Sousa, and Bülent Tütmez, editors, *2015 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2015, Istanbul, Turkey, August 2-5, 2015*, pages 1–8. IEEE, 2015.
- 2015 Giovanni Acampora and Autilia Vitiello. Learning of fuzzy cognitive maps for modelling gene regulatory networks through big bang-big crunch algorithm. In Adnan Yazici, Nikhil R. Pal, Uzay Kaymak, Trevor Martin, Hisao Ishibuchi, Chin-Teng Lin, João M. C. Sousa, and Bülent Tütmez, editors, *2015 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2015, Istanbul, Turkey, August 2-5, 2015*, pages 1–6. IEEE, 2015.
- 2015 Giovanni Acampora and Georgina Cosma. A fuzzy-based approach to programming language independent source-code plagiarism detection. In Adnan Yazici, Nikhil R. Pal, Uzay Kaymak, Trevor Martin, Hisao Ishibuchi, Chin-Teng Lin, João M. C. Sousa, and Bülent Tütmez, editors, *2015 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2015, Istanbul, Turkey, August 2-5, 2015*, pages 1–8. IEEE, 2015.
- 2015 Giovanni Acampora. A comparison of fuzzy approaches to e-commerce review rating prediction. In José Maria Alonso, Humberto Bustince, and Marek Reformat, editors, *2015 Conference of the International Fuzzy Systems Association and the European Society for Fuzzy Logic and Technology (IFSA-EUSFLAT-15), Gijón, Spain., June 30, 2015*. Atlantis Press, 2015.
- 2014 David J. Brown, Georgina Cosma, Giovanni Acampora, Sarah Seymour-Smith, and Alex Close. An intelligent serious game for supporting african and african caribbean men during pre- and post-diagnosis of prostate cancer. In *2014 International Conference on Interactive Technologies and Games, Nottingham, United Kingdom, October 16-17, 2014*, pages 20–27. IEEE Computer Society, 2014.

- 2014 Giovanni Acampora, Autilia Vitiello, Ciro Di Nunzio, Maurizio Saliva, and Luciano Garofano. Bloodstain pattern analysis - A new challenge for computational intelligence community. In António Dourado, José Manuel Cadenas, and Joaquim Filipe, editors, *FCTA 2014 - Proceedings of the International Conference on Fuzzy Computation Theory and Applications, part of IJCCI 2014, Rome, Italy, 22 - 24 October, 2014*, pages 211–216. SciTePress, 2014.
- 2014 Giovanni Acampora, Marek Reformat, and Autilia Vitiello. Extending FML with evolving capabilities through a scripting language approach. In *IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2014, Beijing, China, July 6-11, 2014*, pages 857–864. IEEE, 2014.
- 2014 Giovanni Acampora, Hisao Ishibuchi, and Autilia Vitiello. A comparison of multi-objective evolutionary algorithms for the ontology meta-matching problem. In *Proceedings of the IEEE Congress on Evolutionary Computation, CEC 2014, Beijing, China, July 6-11, 2014*, pages 413–420. IEEE, 2014.
- 2014 Giovanni Acampora, Georgina Cosma, and Taha Osman. An extended neuro-fuzzy approach for efficiently predicting review ratings in e-markets. In *IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2014, Beijing, China, July 6-11, 2014*, pages 881–887. IEEE, 2014.
- 2014 Giovanni Acampora and Georgina Cosma. A hybrid computational intelligence approach for efficiently evaluating customer sentiments in e-commerce reviews. In *2014 IEEE Symposium on Intelligent Agents, IA 2014, Orlando, FL, USA, December 9-12, 2014*, pages 73–80. IEEE, 2014.
- 2014 Giovanni Acampora, Arcangelo Castiglione, and Autilia Vitiello. A fuzzy logic based reputation system for e-markets. In *IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2014, Beijing, China, July 6-11, 2014*, pages 865–872. IEEE, 2014.
- 2014 Giovanni Acampora, Kofi Appiah, Andrew Hunter, and Autilia Vitiello. Interoperable services based on activity monitoring in ambient assisted living environments. In *2014 IEEE Symposium on Intelligent Agents, IA 2014, Orlando, FL, USA, December 9-12, 2014*, pages 81–88. IEEE, 2014.
- 2013 Giovanni Acampora and Autilia Vitiello. Collaborative memetic agents for enabling semantic interoperability. In *2013 IEEE Symposium on Intelligent Agents, IA 2013, Singapore, April 16-19, 2013*, pages 21–27. IEEE, 2013.
- 2013 Giovanni Acampora, Uzay Kaymak, Vincenzo Loia, and Autilia Vitiello. A fml-based fuzzy tuning for a memetic ontology alignment system. In *FUZZ-IEEE 2013, IEEE International Conference on Fuzzy Systems, Hyderabad, India, 7-10 July, 2013, Proceedings*, pages 1–8. IEEE, 2013.
- 2013 Giovanni Acampora, Uzay Kaymak, Vincenzo Loia, and Autilia Vitiello. Applying NSGA-II for solving the ontology alignment problem. In *IEEE International Conference on Systems, Man, and Cybernetics, Manchester, SMC 2013, United Kingdom, October 13-16, 2013*, pages 1098–1103. IEEE, 2013.
- 2012 Giovanni Acampora and Autilia Vitiello. Improving agent interoperability through a memetic ontology alignment: A comparative study. In *FUZZ-IEEE 2012, IEEE International Conference on Fuzzy Systems, Brisbane, Australia, June 10-15, 2012, Proceedings*, pages 1–8. IEEE, 2012.
- 2012 Giovanni Acampora, Vincenzo Loia, and Autilia Vitiello. Using ANFIS and FML for deploying transparent services in smart environments. In IIsun You, Leonard Barolli, Antonio Gentile, Hae-Duck Joshua Jeong, Marek R. Ogiela, and Fatos Xhafa, editors, *Sixth International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing, IMIS 2012, Palermo, Italy, July 4-6, 2012*, pages 628–633. IEEE Computer Society, 2012.

- 2012 Giovanni Acampora, Vincenzo Loia, and Autilia Vitiello. Managing urban waste collection through timed automata based fuzzy cognitive maps. In Gerald Quirchmayr, Josef Basl, Ilun You, Lida Xu, and Edgar R. Weippl, editors, *Multidisciplinary Research and Practice for Information Systems - IFIP WG 8.4, 8.9/TC 5 International Cross-Domain Conference and Workshop on Availability, Reliability, and Security, CD-ARES 2012, Prague, Czech Republic, August 20-24, 2012. Proceedings*, volume 7465 of *Lecture Notes in Computer Science*, pages 501–515. Springer, 2012.
- 2012 Giovanni Acampora, Uzay Kaymak, Vincenzo Loia, and Autilia Vitiello. Hybridizing genetic algorithms and hill climbing for similarity aggregation in ontology matching. In *12th UK Workshop on Computational Intelligence, UKCI 2012, Edinburgh, United Kingdom, September 5-7, 2012*, pages 1–6. IEEE, 2012.
- 2012 Giovanni Acampora, Pasquale Foggia, Alessia Saggese, and Mario Vento. Combining neural networks and fuzzy systems for human behavior understanding. In *Ninth IEEE International Conference on Advanced Video and Signal-Based Surveillance, AVSS 2012, Beijing, China, September 18-21, 2012*, pages 88–93. IEEE Computer Society, 2012.
- 2011 Hsien-De Huang, Giovanni Acampora, Vincenzo Loia, Chang-Shing Lee, and Hung-Yu Kao. Applying FML and fuzzy ontologies to malware behavioural analysis. In *FUZZ-IEEE 2011, IEEE International Conference on Fuzzy Systems, Taipei, Taiwan, 27-30 June, 2011, Proceedings*, pages 2018–2025. IEEE, 2011.
- 2011 Giovanni Acampora, Vincenzo Loia, and Autilia Vitiello. Exploiting timed automata based fuzzy controllers for voltage regulation in smart grids. In *FUZZ-IEEE 2011, IEEE International Conference on Fuzzy Systems, Taipei, Taiwan, 27-30 June, 2011, Proceedings*, pages 223–230. IEEE, 2011.
- 2011 Giovanni Acampora, Vincenzo Loia, and Autilia Vitiello. A cognitive multi-agent system for emotion-aware ambient intelligence. In *2011 IEEE Symposium on Intelligent Agent, IA 2011, Paris, France, April 14-15, 2011*, pages 85–92. IEEE, 2011.
- 2011 Giovanni Acampora, Vincenzo Loia, Gennaro Percannella, and Mario Vento. Trainable estimators for indirect people counting: A comparative study. In *FUZZ-IEEE 2011, IEEE International Conference on Fuzzy Systems, Taipei, Taiwan, 27-30 June, 2011, Proceedings*, pages 139–145. IEEE, 2011.
- 2011 Giovanni Acampora and Vincenzo Loia. Fuzzy markup language: A new solution for transparent intelligent agents. In *2011 IEEE Symposium on Intelligent Agent, IA 2011, Paris, France, April 14-15, 2011*, pages 1–6. IEEE, 2011.
- 2011 Giovanni Acampora, Tatiana Kiseliova, Karaman Pagava, and Autilia Vitiello. Towards application of FML in suspicion of non-common diseases. In *FUZZ-IEEE 2011, IEEE International Conference on Fuzzy Systems, Taipei, Taiwan, 27-30 June, 2011, Proceedings*, pages 2073–2079. IEEE, 2011.
- 2011 Giovanni Acampora, Matteo Gaeta, Enrique Muñoz Ballester, and Autilia Vitiello. An adaptive multi-agent memetic system for personalizing e-learning experiences. In *FUZZ-IEEE 2011, IEEE International Conference on Fuzzy Systems, Taipei, Taiwan, 27-30 June, 2011, Proceedings*, pages 123–130. IEEE, 2011.
- 2011 Giovanni Acampora, José Manuel Cadenas, Roberto De Prisco, Vincenzo Loia, Enrique Muñoz Ballester, and Rocco Zaccagnino. A hybrid computational intelligence approach for automatic music composition. In *FUZZ-IEEE 2011, IEEE International Conference on Fuzzy Systems, Taipei, Taiwan, 27-30 June, 2011, Proceedings*, pages 202–209. IEEE, 2011.
- 2011 Giovanni Acampora, Pasquale Avella, Vincenzo Loia, Saverio Salerno, and Autilia Vitiello. Improving ontology alignment through memetic algorithms. In *FUZZ-IEEE 2011, IEEE International Conference on Fuzzy Systems, Taipei, Taiwan, 27-30 June, 2011, Proceedings*, pages 1783–1790. IEEE, 2011.

- 2011 Giovanni Acampora. A TSK neuro-fuzzy approach for modeling highly dynamic systems. In *FUZZ-IEEE 2011, IEEE International Conference on Fuzzy Systems, Taipei, Taiwan, 27-30 June, 2011, Proceedings*, pages 146–152. IEEE, 2011.
- 2010 Giovanni Acampora, Vincenzo Loia, and Autilia Vitiello. Hybridizing fuzzy control and timed automata for modeling variable structure fuzzy systems. In *FUZZ-IEEE 2010, IEEE International Conference on Fuzzy Systems, Barcelona, Spain, 18-23 July, 2010, Proceedings*, pages 1–8. IEEE, 2010.
- 2010 Giovanni Acampora, Vincenzo Loia, and Autilia Vitiello. Enhancing transparent fuzzy controllers through temporal concepts: an application to computer games. In *2010 International Conference on Technologies and Applications of Artificial Intelligence*, pages 405–412. IEEE, 2010.
- 2010 Giovanni Acampora, Matteo Gaeta, Francesco Orciuoli, and Pierluigi Ritrovato. Exploiting semantic and social technologies for competency management. In *ICALT 2010, 10th IEEE International Conference on Advanced Learning Technologies, Sousse, Tunisia, 5-7 July 2010*, pages 297–301. IEEE Computer Society, 2010.
- 2010 Giovanni Acampora, Matteo Gaeta, Vincenzo Loia, and Autilia Vitiello. Multi-agent memetic computing for adaptive learning experiences. In *FUZZ-IEEE 2010, IEEE International Conference on Fuzzy Systems, Barcelona, Spain, 18-23 July, 2010, Proceedings*, pages 1–8. IEEE, 2010.
- 2010 Giovanni Acampora, Fabio Ferraguto, and Vincenzo Loia. Synthesizing bots emotional behaviors through fuzzy cognitive processes. In Georgios N. Yannakakis and Julian Togelius, editors, *Proceedings of the 2010 IEEE Conference on Computational Intelligence and Games, CIG 2010, Copenhagen, Denmark, 18-21 August, 2010*, pages 329–336. IEEE, 2010.
- 2010 Giovanni Acampora, Giuseppe Fenza, Enrique Munoz, and Bernardino Romera. Mejoras en el uso de aprendizaje activo con arboles fuzzy: un ejemplo de su aplicacion en la toma de decisiones de un sistema coordinado. In *15th Spanish Conference on Fuzzy Logic and Technologies (ESTYLF 2010), Huelva, Spain, February 3-5, 2010*, pages 643–648, 2010.
- 2010 Giovanni Acampora, José Manuel Cadenas, Vincenzo Loia, and Enrique Muñoz Ballester. Achieving memetic adaptability by means of fuzzy decision trees. In *FUZZ-IEEE 2010, IEEE International Conference on Fuzzy Systems, Barcelona, Spain, 18-23 July, 2010, Proceedings*, pages 1–8. IEEE, 2010.
- 2010 Giovanni Acampora. Exploiting timed automata-based fuzzy controllers and data mining to detect computer network intrusions. In *FUZZ-IEEE 2010, IEEE International Conference on Fuzzy Systems, Barcelona, Spain, 18-23 July, 2010, Proceedings*, pages 1–8. IEEE, 2010.
- 2009 Chang-Shing Lee, Mei-Hui Wang, Giovanni Acampora, Vincenzo Loia, and Chin-Yuan Hsu. Ontology-based intelligent fuzzy agent for diabetes application. In *Proceedings of the IEEE Symposium on Intelligent Agents, IA 2009, part of the IEEE Symposium Series on Computational Intelligence 2009, Nashville, TN, USA, March 30, 2009 - April 2, 2009*, pages 16–22. IEEE, 2009.
- 2009 Giovanni Acampora, Vincenzo Loia, Chang-Shing Lee, and Mei-Hui Wang. Dynamical cognitive services for ambient intelligence environments. In *IEEE International Conference on Service-Oriented Computing and Applications, SOCA 2009, 14-15 December 2009, Taipei, Taiwan*, pages 1–8. IEEE Computer Society, 2009.
- 2009 Giovanni Acampora and Vincenzo Loia. A dynamical cognitive multi-agent system for enhancing ambient intelligence scenarios. In *FUZZ-IEEE 2009, IEEE International Conference on Fuzzy Systems, Jeju Island, Korea, 20-24 August 2009, Proceedings*, pages 770–777. IEEE, 2009.
- 2009 Giovanni Acampora, Chang-Shing Lee, and Mei-Hui Wang. Fml-based ontological agent for healthcare application with diabetes. In *Proceedings of the 2009 IEEE/WIC/ACM International Conference on Web Intelligence and International Conference on Intelligent Agent Technology - Workshops, Milan, Italy, 15-18 September 2009*, pages 413–416. IEEE Computer Society, 2009.

- 2008 Giovanni Acampora, Maurizio Di Meglio, and Vincenzo Loia. An integrated development environment for transparent fuzzy agents design: An application to automotive electronic stability program. In *FUZZ-IEEE 2008, IEEE International Conference on Fuzzy Systems, Hong Kong, China, 1-6 June, 2008, Proceedings*, pages 1289–1294. IEEE, 2008.
- 2008 Giovanni Acampora and Vincenzo Loia. An open integrated environment for transparent fuzzy agents design. In Barbara Russo, Ernesto Damiani, Scott A. Hissam, Björn Lundell, and Giancarlo Succi, editors, *Open Source Development, Communities and Quality, IFIP 20th World Computer Congress, Working Group 2.3 on Open Source Software, OSS 2008, September 7-10, 2008, Milano, Italy*, volume 275 of *IFIP*, pages 249–255. Springer, 2008.
- 2008 Giovanni Acampora, Matteo Gaeta, Vincenzo Loia, Pierluigi Ritrovato, and Saverio Salerno. Optimizing learning path selection through memetic algorithms. In *Proceedings of the International Joint Conference on Neural Networks, IJCNN 2008, part of the IEEE World Congress on Computational Intelligence, WCCI 2008, Hong Kong, China, June 1-6, 2008*, pages 3869–3875. IEEE, 2008.
- 2008 Giovanni Acampora, Matteo Gaeta, and Vincenzo Loia. An ontological approach for memetic optimization in personalised e-learning scenarios. In *2008 Third International Conference on Convergence and Hybrid Information Technology*, volume 2, pages 1204–1213. IEEE, 2008.
- 2008 G Acampora, V Loia, M Nappi, and Stefano Ricciardi. A new coordination model for enhancing avatar-based interactive system. In *DHMS 2008, IEEE International Conference on Distributed Human-Machine Systems*, 2008.
- 2008 Andrea F. Abate, Giovanni Acampora, and Stefano Ricciardi. Augmented tour of archaeological site by means of adaptive virtual guide. In *Proceedings of the 14th International Conference on Distributed Multimedia Systems, DMS 2008, September 4-6, 2008, Hyatt Harborside Hotel, Boston, Massachusetts, USA*, pages 260–265. Knowledge Systems Institute, 2008.
- 2007 Giovanni Acampora and Vincenzo Loia. A proposal of multi-agent simulation system for membrane computing devices. In *Proceedings of the IEEE Congress on Evolutionary Computation, CEC 2007, 25-28 September 2007, Singapore*, pages 4100–4107. IEEE, 2007.
- 2006 Giovanni Acampora, Vincenzo Loia, Michele Nappi, and Stefano Ricciardi. A semantic view for flexible communication models between humans, sensors and actuators. In *Proceedings of the IEEE International Conference on Systems, Man and Cybernetics, Taipei, Taiwan, October 8-11, 2006*, pages 3640–3646. IEEE, 2006.
- 2006 Giovanni Acampora and Vincenzo Loia. Ubiquitous fuzzy computing in open ambient intelligence environments. In *IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2006, Vancouver, BC, Canada, July 16-21, 2006*, pages 923–930. IEEE, 2006.
- 2005 Giovanni Acampora, Vincenzo Loia, Michele Nappi, and Stefano Ricciardi. Hybrid computational intelligence for ambient intelligent environments. In Piotr S. Szczepaniak, Janusz Kacprzyk, and Adam Niewiadomski, editors, *Advances in Web Intelligence Third International Atlantic Web Intelligence Conference, AWIC 2005, Lodz, Poland, June 6-9, 2005, Proceedings*, volume 3528 of *Lecture Notes in Computer Science*, pages 26–31. Springer, 2005.
- 2005 Giovanni Acampora, Vincenzo Loia, Michele Nappi, and Stefano Ricciardi. Human-based models for smart devices in ambient intelligence. In *Proceedings of the IEEE International Symposium on Industrial Electronics, ISIE 2005, June 20-23, 2005, Dubrovnik, Croatia*, pages 107–112. Institute of Electrical and Electronics Engineers, 2005.
- 2005 Giovanni Acampora, Vincenzo Loia, Michele Nappi, and Stefano Ricciardi. Ambient intelligence framework for context aware adaptive applications. In *Seventh International Workshop on Computer Architectures for Machine Perception (CAMP 2005), 4-6 July 2005, Palermo, Italy*, pages 327–332. IEEE Computer Society, 2005.

- 2005 Giovanni Acampora and Vincenzo Loia. Using fuzzy technology in ambient intelligence environments. In *IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2005, Reno, Nevada, USA, May 22-25, 2005*, pages 465–470. IEEE, 2005.
- 2005 Giovanni Acampora and Vincenzo Loia. Enhancing the FML vision for the design of open ambient intelligence environment. In *Proceedings of the IEEE International Conference on Systems, Man and Cybernetics, Waikoloa, Hawaii, USA, October 10-12, 2005*, pages 2578–2583. IEEE, 2005.
- 2004 Giovanni Acampora, Vincenzo Loia, Lucio Ippolito, and Pierluigi Siano. Achieving transparency and adaptivity in fuzzy control framework: an application to power transformers predictive overload system. In *IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2004, Budapest, Hungary, July 25-29, 2004*, pages 481–486. IEEE, 2004.
- 2004 G Acampora and V Loia. Fuzzy control interoperability for adaptive domotic framework. In *2nd IEEE International Conference on Industrial Informatics, 2004. INDIN'04. 2004*, pages 184–189. IEEE, 2004.

Book Chapters

- 2021 Giovanni Acampora, Carmela Iorio, Giuseppe Pandolfo, Roberta Siciliano, and Autilia Vitiello. A memetic algorithm for solving the rank aggregation problem. In *Algorithms as a Basis of Modern Applied Mathematics*, pages 447–460. Springer, 2021.
- 2020 Giovanni Acampora and Autilia Vitiello. A study on local search meta-heuristics for ontology alignment. In *Computational Intelligence for Semantic Knowledge Management: New Perspectives for Designing and Organizing Information Systems*, pages 53–70. Springer, 2020.
- 2020 Giovanni Acampora, Witold Pedrycz, Athanasios V Vasilakos, and Autilia Vitiello. Preface. In *Computational Intelligence for Semantic Knowledge Management: New Perspectives for Designing and Organizing Information Systems*. Springer, 2020.
- 2017 Alyxander David May, Ahmad Lotfi, Caroline Langensiepen, Kevin Lee, and Giovanni Acampora. Human emotional understanding for empathetic companion robots. In *Advances in Computational Intelligence Systems*, pages 277–285. Springer, 2017.
- 2016 Georgina Cosma and Giovanni Acampora. Neuro-fuzzy sentiment analysis for customer review rating prediction. In *Sentiment Analysis and Ontology Engineering*, pages 379–397. Springer, 2016.
- 2016 Giovanni Acampora, Davide Caruso, Alfredo Vaccaro, Autilia Vitiello, and Ahmed F Zobaa. The role of nature-inspired metaheuristic algorithms for optimal voltage regulation in urban smart grids. *From Smart Grids to Smart Cities: New Challenges in Optimizing Energy Grids*, pages 89–128. Wiley Online Library, 2016.
- 2015 Giovanni Acampora, Diane J Cook, Parisa Rashidi, Athanasios V Vasilakos, CK Reddy, and CC Aggarwal. Data analytics for pervasive health. *Healthcare data analytics*, volume 2015, pages 533–576, 2015.
- 2014 Giovanni Acampora and Autilia Vitiello. Improving voltage regulation in smart grids through adaptive fuzzy agents. *Computational Intelligence Applications In Smart Grids: Enabling Methodologies For Proactive And Self-organizing Power Systems*, page 165. World Scientific, 2014.
- 2013 Hsien-De Huang, Giovanni Acampora, Vincenzo Loia, Chang-Shing Lee, Hani Hagrass, Mei-Hui Wang, Hung-Yu Kao, and Jee-Gong Chang. Fuzzy markup language for malware behavioral analysis. In *On the Power of Fuzzy Markup Language*, pages 113–132. Springer, 2013.
- 2013 Giovanni Acampora, Vincenzo Loia, and Autilia Vitiello. An enhanced visual environment for designing, testing and developing fml-based fuzzy systems. In *On the Power of Fuzzy Markup Language*, pages 51–70. Springer, 2013.

- 2013 Giovanni Acampora, Vincenzo Loia, and Autilia Vitiello. Distributing fuzzy reasoning through fuzzy markup language: An application to ambient intelligence. In *On the Power of Fuzzy Markup Language*, pages 33–50. Springer, 2013.
- 2013 Giovanni Acampora. Preface. In *On the power of fuzzy markup language*. Springer, 2013.
- 2013 Giovanni Acampora. Fuzzy markup language: A xml based language for enabling full interoperability in fuzzy systems design. In *On the power of fuzzy markup language*, pages 17–31. Springer, 2013.
- 2012 Mei-Hui Wang, Chang-Shing Lee, Giovanni Acampora, and Vincenzo Loia. Electrocardiogram application based on heart rate variability ontology and fuzzy markup language. In *ECG Signal Processing, Classification and Interpretation*, pages 155–178. Springer, 2012.
- 2010 Giovanni Acampora, Enrico Fischetti, Antonio Gisolfi, and Vincenzo Loia. An advanced ide for designing transparent fuzzy agents. In *Intelligent Industrial Systems: Modeling, Automation and Adaptive Behavior*, pages 238–255. IGI Global, 2010.
- 2009 Giovanni Acampora, Vincenzo Loia, and Athanasios V Vasilakos. Autonomous composition of fuzzy granules in ambient intelligence scenarios. In *Human-Centric Information Processing Through Granular Modelling*, pages 265–287. Springer, 2009.
- 2008 Giovanni Acampora, Vincenzo Loia, Michele Nappi, and Stefano Ricciardi. Human-based models for ambient intelligence environments. In *Intelligent Information Technologies: Concepts, Methodologies, Tools, and Applications*, pages 2351–2364. IGI Global, 2008.
- 2007 Giovanni Acampora, Vincenzo Loia, Michele Nappi, and Stefano Ricciardi. Human-based models for ambient intelligence environments. In *Artificial Intelligence and Integrated Intelligent Information Systems: Emerging Technologies and Applications*, pages 1–17. IGI Global, 2007.
- 2007 Giovanni Acampora and Vincenzo Loia. A proposal of an open ubiquitous fuzzy computing system for ambient intelligence. In *Computational Intelligence for Agent-based Systems*, pages 1–27. Springer, 2007.
- 2006 Giovanni Acampora and Vincenzo Loia. Dynamic services for open ambient intelligence systems. In *Soft Computing in Ontologies and Semantic Web*, pages 105–122. Springer, 2006.
- 2006 G Acampora and V Loia. Ambient intelligence and fuzzy adaptive embedded agents. pages 13–34. Artech House, 2006.