

Antonio Candelieri

Curriculum Vitae

PERSONAL DATA

Name: Antonio Candelieri

Born in Catanzaro, 20 July 1979

Nationality: Italian

Resident in via Santa Monica 1, 20162, Milano, Italy

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RESEARCH INTERESTS AND ACTIVITIES

Research interests and activities are focused on Machine Learning and Big/Stream/Network Data Analytics, design and development of data-driven decision support services/systems.

In particular, my research activity has been initially focused on applications in Health Care Intelligent Monitoring systems, and more recently on Smart Water Distribution Networks, Personalized and Sustainable Mobility, Critical Infrastructures protection & resilience.

EDUCATION

- **PhD in Operation Research – XXII° Ciclo – Università della Calabria, Italy.**

(November 2006 – November 2009)

PhD Thesis: A Hyper-Solution Framework for Classification Problems via Metaheuristic Approaches.

- **Master Degree in Computer Engineering – Università della Calabria, Italy.**

(November 1998 – October 2005)

Date: 12 October 2005. Voting: **108/110**

Thesis: (trad. "Data Mining in Medicine: application to the prediction of cardiovascular events and the prognosis of cutaneous melanoma") "Data Mining in Medicina: applicazione alla prevenzione degli eventi cardiovascolari e alla prognosi del melanoma primitivo cutaneo".

PROFESSIONAL QUALIFICATIONS

- Admitted to the engineering profession (voting: **102/120**), November 2005.

PROFESSIONAL EXPERIENCE

- **November 2016 – today, Assistant Professor**, at University of Milano-Bicocca, Department of Computer Science, Systems and Communication, viale Sarca 336, Milano, Italy. Activities: Analysis, design, development and validation of Machine Learning based solutions for data analysis and decision support; Global optimization approaches (in particular for tuning Machine Learning algorithms' hyperparameters and improving efficiency of operations complex systems, such as water distribution networks)
- **January 2014 – October 2016, Senior Researcher**, at Consorzio Milano Ricerche, via Roberto Cozzi 53, Milano, Italy. Activities: Analysis, design, development and validation of ICT-based solutions for data analysis and decision support; Data Scientist; Project Manager.
- **September 2013 – December 2013, occasional cooperation agreement**, at Consorzio Milano Ricerche, via Cozzi 53, Milano, Italy. Activities: development, integration and validation of software components for data analysis and decision support in the field of health monitoring at home.

- **May 2013 – October 2013, occasional cooperation agreement**, at Consorzio Milano Ricerche, via Cozzi 53, Milano, Italy. Activities: machine learning and complex network analysis for water resource management issues in the context of EU FP7 project ICeWater (ICT Solutions for Efficient Resource Management).
- **May 2012 – April 2013, post-doctoral Research Fellow** at the Department of Electronics, Informatics and Systems, University of Milano Bicocca, Italy (S.S.D MAT/09 - Ricerca Operativa). Activities: Formal representation models of concepts and procedure in the law domain.
- **May 2011 – April 2012, post-doctoral Research Fellow** at the Department of Informatics, Systems and Communications, University of Milano Bicocca, Italy (S.S.D. MAT/09 - Ricerca Operativa). Activities: machine learning strategies and hydraulic simulation for optimal water supply networks management: network sectorization and leak localization; activities were performed within the APT 2009 Project "H2OLeak".
- **16 January – 15 February 2012, occasional cooperation agreement**, at Consorzio Milano Ricerche, via Cozzi 53, Milano, Italy. Activities: Survey and validation of the components developed in the Pard-id project.
- **24 August – 22 September 2011, occasional cooperation agreement**, at Consorzio Milano Ricerche, via Cozzi 53, Milano, Italy. Activities: Design and development of user-profiling algorithms.
- **March 2010 – February 2011, post-doctoral Research Fellow** at the Department of Electronics, Informatics and Systems, University of Calabria, Italy (S.S.D MAT/09 - Ricerca Operativa). Activities: design, development, implementation and validation of Data Mining methodologies, applications and tools for advanced analyses of biomedical and clinical data and information in the neurology and neuro-rehabilitation fields.
- **January – February 2010, occasional cooperation agreement**, at the Istituto S. Anna di Ezio Pugliese s.r.l., via Siris 11, Crotone, Italy. Activities: analysis of clinical and biomedical data through Data Mining techniques in the neurology and neuro-rehabilitation fields.
- **October – November 2008, collaboration agreement**, at Università degli Studi Magna Graecia, Catanzaro, Italy. Activities: technical support for the clinical validation of ICT services for the Chronic Heart Failure patients management. Services were realized within the EU FP6 Project HEARTFAID (www.heartfaid.org).
- **May – October 2007, collaboration agreement**, at Department of Electronics, Informatics and Systems, University of Calabria, Italy. Activities: Knowledge Discovery tasks within the EU FP6 Project HEARTFAID (www.heartfaid.org).
- **May 2006 – January 2007, Research Fellow**, at the Department of Electronics, Information and Systems, University of Calabria, Italy (S.S.D MAT/09 - Ricerca Operativa). Activities: Knowledge Discovery tasks, design and development of a Decision Support System within the MIMERICA project (a Research & Development project co-founded by the Italian Ministry of University and Research). MIMERICA was for Metodologie e Strumenti Innovativi nella Medicina della Riabilitazione degli esiti di gravi Cerebrolesioni Acquisite (trad: novel methodologies and tools for the rehabilitation of severe acquired brain injured patients).

PUBLICATIONS

2018

- [1] Shabani, S., Candelieri, A., Archetti, F., Naser, G., Gene expression programming coupled with unsupervised learning: A two-stage learning process in multi-scale, short-term water demand forecasts (2018) *Water (Switzerland)*, 10 (2), art. no. 142.
- [2] Candelieri, A., Giordani, I., Archetti, F., Barkalov, K., Meyerov, I., Polovinkin, A., Sysoyev, A., Zolotykh, N., Tuning hyperparameters of a SVM-based water demand forecasting system through parallel global optimization (2018) *Computers and Operations Research* [Article in Press].

2017

- [3] Candelieri, A., Giordani, I., Archetti, F., Automatic configuration of kernel-based clustering: an optimization approach (2017) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 10556 LNCS, pp. 34-49.
- [4] Candelieri, A., Giordani, I., Archetti, F., Supporting Resilience Management of Water Distribution Networks through Network Analysis and Hydraulic Simulation (2017) Proceedings - 2017 21st International Conference on Control Systems and Computer, CSCS 2017, art. no. 7968619, pp. 599-605.
- [5] Morganti, L., Pallavicini, F., Cadel, E., Candelieri, A., Archetti, F., Mantovani, F., Gaming for Earth: Serious games and gamification to engage consumers in pro-environmental behaviours for energy efficiency (2017) Energy Research and Social Science, 29, pp. 95-102.
- [6] Candelieri, A., Clustering and support vector regression for water demand forecasting and anomaly detection (2017) Water (Switzerland), 9 (3), art. no. 224.
- [7] Bellini, E., Nesi, P., Cocone, L., Gaitanidou, E., Ferreira, P., Simoes, A., Candelieri, A., Towards resilience operationalization in urban transport system: The RESOLUTE project approach (2017) Risk, Reliability and Safety: Innovating Theory and Practice - Proceedings of the 26th European Safety and Reliability Conference, ESREL 2016, p. 345.

2016

- [8] Triberti, S., Barelo, S., Graffigna, G., Riva, G., Candelieri, A., Archetti, F., Evaluating patient engagement and user experience of a positive technology intervention: The H-CIM case (2016) Patient Engagement: A Consumer-Centered Model to Innovate Healthcare, pp. 66-77.

2015

- [9] Soldi, D., Candelieri, A., Archetti, F., Resilience and vulnerability in urban water distribution networks through network theory and hydraulic simulation (2015) Procedia Engineering, 119 (1), pp. 1259-1268.
- [10] Candelieri, A., Archetti, F., Detecting events and sentiment on twitter for improving urban mobility (2015) CEUR Workshop Proceedings, 1351, pp. 106-115.
- [11] Candelieri, A., Soldi, D., Archetti, F., Cost-effective sensors placement and leak localization - The Neptun pilot of the ICeWater project (2015) Journal of Water Supply: Research and Technology - AQUA, 64 (5), pp. 567-582.
- [12] Candelieri, A., Soldi, D., Archetti, F., Network analysis for resilience evaluation in water distribution networks (2015) Environmental Engineering and Management Journal, 14 (6), pp. 1261-1270.
- [13] Candelieri, A., Soldi, D., Archetti, F., Short-term forecasting of hourly water consumption by using automatic metering readers data (2015) Procedia Engineering, 119 (1), pp. 844-853.

2014

- [14] Candelieri, A., Conti, D., Soldi, D., Archetti, F., Spectral Clustering And Support Vector Classification For Localizing Leakages In Water Distribution Networks – The ICeWater Project Approach (2014), in Proceedings of the 11th International Conference on Hydroinformatics (HIC 2014), New York City, USA, CUNY Academic Works.
- [15] Candelieri, A., Conti, D., Cappellini, D., Archetti, F., Urban Water Demand Characterization And Short-Term Forecasting – The ICeWater Project Approach (2014), n Proceedings of the 11th International Conference on Hydroinformatics (HIC 2014), New York City, USA, CUNY Academic Works.
- [16] Candelieri, A., Archetti, F., Identifying typical urban water demand patterns for a reliable short-term forecasting – the ICeWater approach (2014) Procedia Engineering, 89, pp. 1004-1012.
- [17] Candelieri, A., Soldi, D., Conti, D., Archetti, F., Analytical leakage localization in water distribution networks through spectral clustering and support vector machine – the ICeWater approach (2014), Procedia Engineering, 89, pp. 1080-1088.
- [18] Riganello, F., Cortese, M.D., Arcuri, F., Candelieri, A., Guglielmino, F., Dolce, G., Sannita, W.G., Schnakers, C., A study of the reliability of the Nociception Coma Scale (2014) Clinical Rehabilitation, 29 (4), pp. 388-393.

- [19] Candelieri, A., Archetti, F., Giordani, I., Arosio, G., Sormani, R. Smart cities management by integrating sensors, models and user generated contents (2014) *WIT Transactions on Ecology and the Environment*, 179 VOLUME 1, pp. 719-730.
- [20] Melchiorre, D., Maresca, M., Bracci, R., Ravaschio, A., Valiensi, B., Casale, R., Bandinelli, F., Candelieri, A., Bonghi, S.M., Porta, F., Innocenti, M., Carulli, C., Matucci-Cerinic, M. Muscle shortening manoeuvre reduces pain and functional impairment in shoulder impingement syndrome: Clinical and ultrasonographic evidence (2014) *Clinical and Experimental Rheumatology*, 32 (1), pp. 5-10.
- [21] Archetti, F., Arosio, G., Candelieri, A., Giordani, I., Sormani, R. Smart data driven maintenance: Improving damage detection and assessment on aerospace structures (2014) 2014 IEEE International Workshop on Metrology for Aerospace, MetroAeroSpace 2014 - Proceedings, art. no. 6865902, pp. 101-106.
- [22] Candelieri, A., Archetti, F. Smart water in urban distribution networks: Limited financial capacity and Big Data analytics (2014) *WIT Transactions on the Built Environment*, 139, pp. 63-73.
- [23] Candelieri, A., Contib, D., Archetti, F. A graph based analysis of leak localization in urban water networks (2014) *Procedia Engineering*, 70, pp. 228-237.
- [24] Candelieri, A., Archetti, F. Analyzing tweets to enable sustainable, multi-modal and personalized urban mobility: Approaches and results from the Italian project TAM-TAM (2014) *WIT Transactions on the Built Environment*, 138, pp. 373-379.
- [25] Candelieri, A., Conti, D., Archetti, F., (2014) Improving Analytics in Urban Water Management: A Spectral Clustering-based Approach for Leakage Localization, *Procedia - Social and Behavioral Sciences*, 108, pp. 235-248.

2013

- [26] Candelieri, A., Archetti, F., Messina, E., (2013) Analytics for supporting urban water management, *Environmental Engineering & Management Journal (EEMJ)*, 12 (5), pp. 875-881.
- [27] Bandinelli, F., Sedie, A.D., Salvadorini, G., Riente, L., Candelieri, A., Generini, S., Bombardieri, S. Reply to comment on: Ankylosing spondylitis: How diagnostic and therapeutic delay have changed over the last six decades-E. Feldtkeller, A. Zeller, M. Rudwaleit (2013) *Clinical and Experimental Rheumatology*, 31 (6), p. 993.
- [28] Candelieri, A., Sormani, R., Arosio, G., Giordani, I., Archetti, F. Assessing structural health of helicopter fuselage panels through artificial neural networks hierarchies (2013) *International Journal of Reliability and Safety*, 7 (3), pp.216-234.
- [29] Bandinelli, F., Melchiorre, D., Scazzariello, F., Candelieri, A., Conforti, D., Matucci-Cerinic, M. Clinical and radiological evaluation of sacroiliac joints compared with ultrasound examination in early spondyloarthritis (2013) *Rheumatology (United Kingdom)*, 52 (7), pp. 1293-1297.
- [30] Candelieri, A., Archetti, F., Messina, E. Improving leakage management in urban water distribution networks through data analytics and hydraulic simulation (2013) *WIT Transactions on Ecology and the Environment*, 171, pp. 107-117.
- [31] Bandinelli, F., Prignano, F., Bonciani, D., Bartoli, F., Collaku, L., Candelieri, A., Lotti, T., Matucci-Cerinic, M. Ultrasound detects occult enthesal involvement in early psoriatic arthritis independently of clinical features and psoriasis severity (2013) *Clinical and Experimental Rheumatology*, 31 (2), pp. 0219-0224
- [32] Bandinelli, F., Prignano, F., Bonciani, D., Pallanti, S., Lotti, T., Salaffi, F., Bartoli, F., Candelieri, A., Giovannini, L., Maddali Bonghi, S., Matucci-Cerinic, M. Clinical and demographic factors influence on anxiety and depression in early psoriatic arthritis (ePsA) (2013) *Clinical and Experimental Rheumatology*, 31 (2), pp. 0318-0319.

2012

- [33] Agretti, P., Ferrarini, E., Rago, T., Candelieri, A., De Marco, G., Dimida, A., Niccolai, F., Molinaro, A., Di Coscio, G., Pinchera, A., Vitti, P., Tonacchera, M. MicroRNA expression profile helps to distinguish benign nodules from papillary thyroid carcinomas starting from cells of fine-needle aspiration (2012) *European Journal of Endocrinology*, 167 (3), pp. 393-400.
- [34] Tonacchera, M., Agretti, P., Rago, T., De Marco, G., Niccolai, F., Molinaro, A., Scutari, M., Candelieri, A., Conforti, D., Musmanno, R., Di Coscio, G., Basolo, F., Iacconi, P., Miccoli, P., Pinchera, A., Vitti, P. Genetic markers to discriminate benign and malignant thyroid nodules with undetermined cytology in an area of borderline iodine deficiency (2012) *Journal of Endocrinological Investigation*, 35 (8), pp. 754-759.

[35] Candelieri, A., Giordani, I., Testa, P., Arosio, G., Archetti, F. A Markov-based model to forecast emergency hospital admissions due to air pollution: The Lenvis project approach (2012) *Environmental Engineering and Management Journal*, 11 (5), pp. 999-1008.

[36] Candelieri, A., Messina, E. Sectorization and analytical leaks localization in the H2OLEAK project: Clustering-based services for supporting water distribution networks management (2012) *Environmental Engineering and Management Journal*, 11 (5), pp. 953-962.

2011

[37] Riganello, F., Candelieri, A., Dolce, G., Sannita, W.G. Residual emotional processing in the vegetative state: A scientific issue? (2011) *Clinical Neurophysiology*, 122 (5), pp. 1061-1062.

[38] Bandinelli, F., Kaloudi, O., Candelieri, A., Conforti, M.L., Casale, R., Cammarata, S., Grassiri, G., Miniati, I., Melchiorre, D., Matucci-Cerinic, M. Early detection of median nerve syndrome at the carpal tunnel with high-resolution 18 MHz ultrasonography in systemic sclerosis patients (2010) *Clinical and Experimental Rheumatology*, 28 (5 SUPPL. 62), pp. S15-S18.

[39] Salvadorini, G., Bandinelli, F., Delle Sedie, A., Riente, L., Candelieri, A., Generini, S., Possemato, N., Bombardieri, S., Matucci-Cerinic, M. Ankylosing spondylitis: How diagnostic and therapeutic delay have changed over the last six decades (2012) *Clinical and Experimental Rheumatology*, 30 (4), pp. 561-565.

[40] Bandinelli, F., Fedi, R., Generini, S., Porta, F., Candelieri, A., Mannoni, A., Innocenti, M., Matucci Cerinic, M. Longitudinal ultrasound and clinical follow-up of Baker's cysts injection with steroids in knee osteoarthritis (2012) *Clinical Rheumatology*, 31 (4), pp. 727-731.

[41] Candelieri, A. A hyper-solution framework for classification problems via metaheuristic approaches (2011) *4OR*, 9 (4), pp. 425-428.

[42] Candelieri, A., Cortese, M.D., Dolce, G., Riganello, F., Sannita, W.G. Visual pursuit: Within-day variability in the severe disorder of consciousness (2011) *Journal of Neurotrauma*, 28 (10), pp. 2013-2017.

[43] Candelieri, A., Riganello, F., Cortese, D., Sannita, W.G. Functional status and the eye-tracking response: A data mining classification study in the vegetative and minimally conscious states (2011) *HEALTHINF 2011 - Proceedings of the International Conference on Health Informatics*, pp. 138-141.

[44] Bandinelli, F., Milla, M., Genise, S., Giovannini, L., Bagnoli, S., Candelieri, A., Collaku, L., Biagini, S., Cerinic, M.M. Ultrasound discloses enthesal involvement in inactive and low active inflammatory bowel disease without clinical signs and symptoms of spondyloarthropathy (2011) *Rheumatology*, 50 (7), art. no. keq447, pp. 1275-1279.

[45] Dolce, G., Lucca, L.F., Candelieri, A., Rogano, S., Pignolo, L., Sannita, W.G. Visual pursuit in the severe disorder of consciousness (2011) *Journal of Neurotrauma*, 28 (7), pp. 1149-1154.

2010

[46] Riganello, F., Candelieri, A., Quintieri, M., Dolce, G. Heart rate variability, emotions, and music (2010) *Journal of Psychophysiology*, 24 (2), pp. 112-119.

[47] Riganello, F., Candelieri, A., Quintieri, M., Conforti, D., Dolce, G. Heart rate variability: An index of brain processing in vegetative state? An artificial intelligence, data mining study (2010) *Clinical Neurophysiology*, 121 (12), pp. 2024-2034.

[48] Riganello, F., Candelieri, A. Data mining and the functional relationship between heart rate variability and emotional processing: Comparative analyses, validation and application (2010) *HEALTHINF 2010 - 3rd International Conference on Health Informatics, Proceedings*, pp. 159-165.

[49] Kaloudi, O., Bandinelli, F., Filippucci, E., Conforti, M.L., Miniati, I., Guiducci, S., Porta, F., Candelieri, A., Conforti, D., Grassiri, G., Grassi, W., Matucci-Cerinic, M. High frequency ultrasound measurement of digital dermal thickness in systemic sclerosis (2010) *Annals of the Rheumatic Diseases*, 69 (6), pp. 1140-1143.

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2009

- [51] Pignolo, L., Riganello, F., Candelieri, A., Lagani, V. Vegetative state: Early prediction of clinical outcome by artificial neural network (2009) *Artificial Neural Networks and Intelligent Information Processing - Proc. 5th Int. Workshop on Artificial Neural Networks and Intelligent Information Processing - ANNIIP 2009*, held with ICINCO 2009, pp. 91-96.
- [52] Riganello, F., Pignolo, L., Lagani, V., Candelieri, A. Data-mining approaches for the study of emotional responses in healthy controls and traumatic brain injured patients: Comparative analysis and validation (2009) *Artificial Neural Networks and Intelligent Information Processing - Proc. 5th Int. Workshop on Artificial Neural Networks and Intelligent Information Processing - ANNIIP 2009*, held with ICINCO 2009, pp. 125-133.
- [53] Candelieri, A., Conforti, D., Sciacqua, A., Perticone, F. Knowledge discovery approaches for early detection of decompensation conditions in heart failure patients (2009) *ISDA 2009 - 9th International Conference on Intelligent Systems Design and Applications*, art. no. 5364868, pp. 357-362.
- [54] Fiori, G., Galluccio, F., Braschi, F., Amanzi, L., Miniati, I., Conforti, M.L., Del Rosso, A., Generini, S., Candelieri, A., Magonio, A., Goretti, R., Rasero, L., Matucci-Cerinic, M. Vitamin E gel reduces time of healing of digital ulcers in systemic sclerosis (2009) *Clinical and Experimental Rheumatology*, 27 (3 SUPPL. 54), pp. S51-S54.
- [55] Damjanov, N., Ostojic, P., Kaloudi, O., Alari, S., Guiducci, S., Stanflin, N., Nestorovic, B., Knezevic, J., Camiciottoli, G., Porta, F., Pistolesi, M., Ibba-Manneschi, L., Conforti, M.L., Candelieri, A., Matucci Cerinic, M. Induced sputum in systemic sclerosis interstitial lung disease: Comparison to healthy controls and bronchoalveolar lavage (2009) *Respiration*, 78 (1), pp. 56-62.

2008

- [56] Gamberger, D., Prcela, M., Jović, A., Šmuc, T., Parati, G., Valentini, M., Kawecka-Jaszcz, K., Styczkiewicz, K., Kononowicz, A., Candelieri, A., Conforti, D., Guido, R. Medical knowledge representation within heartfaid platform (2008) *HEALTHINF 2008 - 1st International Conference on Health Informatics, Proceedings*, 1, pp. 307-314.
- [57] Candelieri, A., Conforti, D., Perticone, F., Sciacqua, A., Kawecka-Jaszcz, K., Styczkiewicz, K. Early detection of decompensation conditions in heart failure patients by knowledge discovery: The HEARTFAID approaches (2008) *Computers in Cardiology*, 35, art. no. 4749186, pp. 893-896.
- [58] Dolce, G., Riganello, F., Quintieri, M., Candelieri, A., Conforti, D. Personal interaction in the vegetative state: A data-mining study (2008) *Journal of Psychophysiology*, 22 (3), pp. 150-156.
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- [60] Riganello, F., Quintieri, M., Candelieri, A., Conforti, D., Dolce, G. Heart rate response to music: An artificial intelligence study on healthy and traumatic brain-injured subjects (2008) *Journal of Psychophysiology*, 22 (4), pp. 166-174.

TEACHING EXPERIENCE

- **2017/2018**, Assistant Professor for “Business Intelligence for Financial Services” course for Bachelor Degree in Computer Science, University of Milano-Bicocca, Milan, Italy
- **2016/2017**, Assistant Professor for “Business Intelligence for Financial Services” course for Bachelor Degree in Computer Science, University of Milano-Bicocca, Milan, Italy
- **2015/2016**, Assistant Professor for “Data Analytics” course for Master Degree in Computer Science, University of Milano-Bicocca, Milan, Italy
- **2014/2015**, Assistant Professor for “Data Analytics” course for Master Degree in Computer Science, University of Milano-Bicocca, Milan, Italy
- **2013/2014**, Assistant Professor for “Data Analytics” course for Master Degree in Computer Science, University of Milano-Bicocca, Milan, Italy

- **January – March 2008**, Teaching Assistant in “Metodi e Modelli di Supporto alle Decisioni Mediche” (trad. methods and models for supporting medical decisions) for MSc in Ingegneria Gestionale (trad. management engineering), Faculty of Engineering, University of Calabria, Italy.
- **October – November 2007**, Teaching Assistant for Master course (level II) at CeSIC, “Centro di Supercalcolo per l’Ingegneria Computazionale” (trad. supercomputing center for computational engineering), industrial research project, University of Calabria and NEC-Italia. Covered issues: theoretical and practical aspects of Data Mining techniques for Healthcare.
- **Supervisor of Master Degrees in Engineering** at University of Calabria and **Master Degrees in Computer Science** at University of Milano-Bicocca

Milano, 5th March 2018