

Curriculum Vitae

Personal Information

Name Lucia Sacchi
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Education	
March 30, 2007:	Phd in Bioengineering and Bioinformatics. PhD thesis: Learning Temporal Relationships between Complex Patterns: Theory and Applications in Gene Expression Analysis
September 25, 2003:	Computer Science and Engineering Master Degree at the University of Pavia (Score: 110 out of 110 cum Laude). Master thesis: "Astrazioni temporali per il clustering e la classificazione di profili di espressione genica" (Clustering and classification of gene expression profiles through Temporal Abstractions)
Appointments	
May 2019 - Present:	Associate Professor at the Department of Electrical, Computer and Biomedical Engineering of the University of Pavia
2018 - today	Member of the Academic Board (Collegio docenti) of the Phd Program on "Health Technologies, Bioengineering, and Bioinformatics", University of Pavia
Jan 2016 – May 2019:	Assistant Professor (Ricercatore a Tempo Determinato art.24 comma 3 lett.b) Legge 240/2010) at the Department of Electrical, Computer and Biomedical Engineering of the University of Pavia
Jan 2012 - Dec 2015:	Assistant Professor (Ricercatore a Tempo Determinato art.24 comma 3 lett.a) Legge 240/2010) at the Department of Electrical, Computer and Biomedical Engineering of the University of Pavia
Sept 2010 – Dec 2011	Senior research fellow at the School of Information Systems, Computing and Mathematics, Brunel University, London. (EPSRC grant RRR1025R29033: "Data Integrity and Intelligent Data Analysis techniques applied to a Glaucoma progression dataset").
2007-2010:	Post-doctoral researcher at the Laboratory for Biomedical Informatics - University of Pavia
October-December 2008	Visiting researcher at the Department of Computer Science, University of Pittsburgh, PA, USA.

Sept-Dec 2005, July 2006:	Visiting student at the Artificial Intelligence Laboratory at Ljubljana University, Slovenia
Nov 2003 – Oct 2006:	PhD student at the Laboratory for Biomedical Informatics at the University of Pavia
Teaching Activity	
2012 - today	Artificial Intelligence in Medicine Course, Master's degree in Bioengineering, University of Pavia
2020 - today	Bioengineering and Devices in Sports – Scienze Motorie Bachelor's degree , University of Pavia
2021 - today	Informatics – Nursing Bachelor's degree, University of Pavia
2017 - today	Medical Informatics, Bioengineering Bachelor's degree, University of Pavia
2019 - 2021	Advanced Biomedical Machine Learning Course, Master's degree in Biomedical Engineering, University of Pavia
2016 - today	Medical Informatics Module for the Postgraduate medical training program in Cardiovascular Diseases of the University of Pavia
2012 – today	Supervisor of several bachelor and master theses at the Laboratory for Biomedical Informatics, University of Pavia. Supervisor of 4 PhD students for the PhD program on Bioengineering and Bioinformatics of the University of Pavia
Participation to Research Projects	
EU - H2020	
2020-2024	CAPABLE (H2020 875052) 49 months, starting January 2020 Role: UNIPV (coordinator) research unit member
EU - FP7	
2013-2016	MOSAIC (FP7 - 600914) (http://www.mosaicproject.eu/) 36 months, starting January 2013 Role: UNIPV research unit member
2011-2015	MobiGuide (FP7-287811) (http://www.mobiguide-project.eu/). 48 months, starting November 2011 Role: UNIPV research unit member
EPSRC (Engineering and Physical Science Research council)	
2010-2012	grant RRR1025R29033: "Data Integrity and Intelligent Data Analysis techniques applied to a Glaucoma progression dataset" Ruolo: research fellow
MIUR - PRIN	
2003-2005	Modelli dinamici dell'espressione genica da dati di microarray Role: UNIPV research unit member
2004-2006	Analisi intelligente dei dati di monitoraggio di emodialisi per il miglioramento dei processi di cura

	Role: UNIPV research unit member
2005-2007	Modelli dinamici dell'espressione genica e proteica in cellule progenitrici endoteliali nell'evoluzione del diabete Role: UNIPV research unit member
MIUR – FIRB	
2007-2011	ITALBIONET - Rete Italiana di Bioinformatica (Italian Bioinformatics Network) Role: UNIPV research unit member
CARIPLO	
2008-2011	Bioinformatica per l'ingegneria tissutale: creazione di un gruppo di ricerca internazionale Role: UNIPV research unit member
Scientific Events Organization	
2025:	AIME 2025 conference
2023:	Scientific Program Committee co-chair, EFMI Special Topic Conference STC 2023 "Telehealth Ecosystems in Practice", Torino, October 2023
2022:	Scientific Program Committee Co-Chair MIE 2022 Conference, Nice, May 2022
2020:	XXXIX Scuola Annuale del Gruppo Nazionale di Bioingegneria: "AI-enabled health care: from decision support to autonomous robots", September 2020
2017:	XXXVI Scuola Annuale del Gruppo Nazionale di Bioingegneria "E-Health Medicina Digitale", September 2017
2017:	Program co-chair AIME 2017 - 16th Conference in Artificial intelligence in Medicine. Vienna, 21-24 June 2017
2016:	Organizer of the Summer School on "Big data for Precision Medicine", Pavia, 12-15 September 2016
2015:	Local organizing chair per la 15th Conference on Artificial Intelligence in Medicine (AIME 2015), Pavia, 17 - 20 Giugno 2015
2012:	Co-chair of the 17° Workshop on Intelligent Data Analysis in Biomedicine and Pharmacology (IDAMAP 2012, Pavia 22 November 2012).
2009:	Co-chair of the 14° Workshop on Intelligent Data Analysis in Biomedicine and Pharmacology (IDAMAP 2009, Verona, 19 July 2009).
Boards and Editorial Board Membership	
2017 – today:	Editorial Board Member of the Artificial Intelligence in Medicine Journal Impact Factor (JCR 2021): 7.011, Journal Ranking: Q1 (2022))
2017 – today:	Editorial Board Member of the Journal of Biomedical Informatics (Impact Factor (JCR 2021): 8.000, Journal Ranking: Q1 (2022))

2016 - today	BMC Medical Informatics and Decision Making: Editorial Board Member (IF (JCR 2021): 3.298, Q2 (2022))
2022-today	Scientific coordinator of the OHDSI Italy National node
2020-today	National representative for Italy in the Council of the European Federation of Medical Informatics (EFMI)
2020-2023	President of the Italian Biomedical Informatics Association (SIBIM)
2017-2023	Member of the board of the Italian Biomedical Informatics Association (SIBIM)
2015 - 2021	Board member, Artificial Intelligence in Medicine society (AIME)
2019 - 2022	Chair, IMIA Working Group on Data Mining and Big Data Analytics
Conferences Program Committee	
since 2014:	IEEE International Conference on Healthcare Informatics (ICHI) – Scientific Program Committee Member
Since 2009:	Conference on Artificial Intelligence in Medicine (AIME): Scientific Program Committee Member
2012 -2013:	Scientific Program Committee Member of the following conferences: International Conference on Health Information Science (HIS2013), ACM CIKM International Workshop on Smart Health and Wellbeing (SHB2012), International Symposium on Temporal Representation and Reasoning (TIME'12).
2009 - 2012	Scientific Program Committee Member of the Workshop on Intelligent Data Analysis in bioMedicine and Pharmacology (IDAMAP).
Awards	
2013:	The paper " Patient-tailored workflow patterns from clinical practice guidelines recommendations " was nominated for the best paper award at MEDINFO 2013 Conference
2008:	Italian National Bioengineering Group Award "Paolo Inchingolo"
2007:	Diploma from Graduate Program of the Institute for Advanced Study, Pavia
Reviewer Activity	
International Journals and Conferences	
Since 2006:	Reviewer for the following international journals: Journal of Biomedical Informatics, Artificial Intelligence in Medicine, Methods of Information in Medicine, Information Sciences, IEEE Transactions on Information Technology in Biomedicine, IEEE Transactions on Biomedical Engineering and BMC Medical Informatics and Decision Making.

Since 2007:	Reviewer for several International conferences and workshops (AIME, MEDINFO, AMIA Summit on Translational Bioinformatics, IEEE CBMS, IDAMAP, MIE)
Projects and PhD dissertations	
2023-2025	Monitoring Committee Member for 1 PhD thesis at the University of Ljubljana, Slovenia
2016	Expert evaluator for the EQUIPT - Tobacco ROI tool project
2015	External Reviewer for the PhD thesis " Proposal of a trust and reputation model to provide recommendation in open quality oriented environments", PhD candidate: Inaki Martinez Sarriegui, Università Politecnica di Madrid (UPM)
Invited Talks	
2023	Invited speaker at the SIERR Update 2023 - Artificial Intelligence and IVF: instructions for use. Organized by the Società Italiana di Embriologia Riproduzione e Ricerca Title of the talk: An introduction to AI: history, terminology, and relevance
2022	WHO European Conference on TACKLING NONCOMMUNICABLE DISEASES THROUGH DIGITAL SOLUTIONS (DIGITAL4NCD) Title of the Talk: Literature review of the use of big data and AI for NCDs
2022	Invited Speaker for the Machine Learning in Medicine Seminar Series, University of Pittsburgh, US Title of the talk: "Temporal Data Analytics for Clinical Decision Support" organizzata dall'Università di Pittsburgh
2020	Scuola Annuale del Gruppo Nazionale di Bioingegneria 2020 Title of the talk: A basic Glossary of Machine Learning
2019	Invited Speaker for the Seminar Series on Intelligent Data Analysis, Brunel University, London UK Title of the talk: Longitudinal data analytics for clinical decision support
2018	Invited speaker for the INDUSTRY 4.0, TECHNOLOGY AND THE LAW WINTER SCHOOL 2018 Title of the talk: Big Data and Information Management
2017	Invited speaker at the X Foresight Training Course organized by the Gianni Benzi Foundation Title of the talk: How to exploit the power of data variety for research and clinical practice
2017	Scuola Annuale del Gruppo Nazionale di Bioingegneria 2027 Title of the talk: Medical Shared Decision Making.
2016	Invited speaker at Connectathon 2017 Title of the talk: Data Mining nei Sistemi di Supporto alla Decisione in Medicina
2016	MobiGuide – Homecare per pazienti con fibrillazione atriale, 8 Marzo 2016, Collegio Cairoli, Pavia, nel ciclo delle Giornate Tematiche per le Imprese
2010	<i>Mining Multivariate Temporal Data in Biomedical Applications</i> . Centre for Intelligent Data Analysis, Brunel University, 28 Ottobre 2010.

2008

Mining Complex Temporal Patterns in Multivariate Biomedical Time Series. ISP AI Forum, University of Pittsburgh, 21 Novembre 2008.

Indicators (at 16/04/2020)

Scopus:

Documents: 152

Citations: 2405 total citations by 2009 documents

h-index: 27

Papers on International Journals

1. Peleg M, Veggiotti N, **Sacchi L**, Wilk S. How can we reward you? A compliance and reward ontology (CaRO) for eliciting quantitative reward rules for engagement in mHealth app and healthy behaviors. *J Biomed Inform.* 2024 Jun;154:104655. doi: 10.1016/j.jbi.2024.104655. Epub 2024 May 15. PMID: 38754531.
2. Gatto M, Frontini G, Calatroni M, Reggiani F, Depascale R, Cruciani C, Quaglini S, **Sacchi L**, Trezzi B, Bonelli GD, L'Imperio V, Vaglio A, Furlan C, Zen M, Iaccarino L, Sinico RA, Doria A, Moroni G. Effect of Sustained Clinical Remission on the Risk of Lupus Flares and Impaired Kidney Function in Patients With Lupus Nephritis. *Kidney Int Rep.* 2024 Jan 19;9(4):1047-1056. doi: 10.1016/j.ekir.2024.01.016. PMID: 38765576; PMCID: PMC11101726.
3. Fraterman I, Wollersheim BM, Tibollo V, Glaser SLC, Medlock S, Cornet R, Gabetta M, Gisko V, Barkan E, di Flora N, Glasspool D, Kogan A, Lanzola G, Leizer R, Mallo H, Ottaviano M, Peleg M, van de Poll-Franse LV, Veggiotti N, Śniatała K, Wilk S, Parimbelli E, Quaglini S, Rizzo M, Locati LD, Boekhout A, **Sacchi L**, Wilgenhof S. An eHealth App (CAPABLE) Providing Symptom Monitoring, Well-Being Interventions, and Educational Material for Patients With Melanoma Treated With Immune Checkpoint Inhibitors: Protocol for an Exploratory Intervention Trial. *JMIR Res Protoc.* 2023 Oct 11;12:e49252. doi: 10.2196/49252. PMID: 37819691; PMCID: PMC10600650.
4. Licari A, D'Auria E, De Amici M, Castagnoli R, **Sacchi L**, Testa G, Marseglia GL. The role of basophil activation test and component-resolved diagnostics in the workup of egg allergy in children at low risk for severe allergic reactions: A real-life study. *Pediatr Allergy Immunol.* 2023 Aug;34(8):e14012. doi: 10.1111/pai.14012. PMID: 37622260.
5. De Amici M., Barocci F., Barzaghi C. E., **Sacchi L**, De Silvestri A., Licari A., Caimmi S., Marseglia A., Testa G., Torre C., Marseglia G. L. (2023). Impact of individual molecular components in determining primary sensitization to latex. *IMMUNOBIOLOGY*, vol. 228, ISSN: 0171-2985, doi:10.1016/j.imbio.2022.152320
6. Munoz-Gama J, Martin N, Fernandez-Llatas C, Johnson OA, Sepúlveda M, Helm E, Galvez-Yanjari V, Rojas E, Martinez-Millana A, Aloini D, Amantea IA, Andrews R, Arias M, Beerepoot I, Benevento E, Burattin A, Capurro D, Carmona J, Comuzzi M, Dalmás B, de la Fuente R, Di Francescomarino C, Di Ciccio C, Gatta R, Ghidini C, Gonzalez-Lopez F, Ibanez-Sanchez G, Klasky HB, Prima Kurniati A, Lu X, Mannhardt F, Mans R, Marcos M, Medeiros de Carvalho R, Pegoraro M, Poon SK, Pufahl L, Reijers HA, Remy S, Rinderle-Ma S, **Sacchi L**, Seoane F, Song M, Stefanini A, Sulis E, Ter Hofstede AHM, Toussaint PJ, Traver V, Valero-Ramon Z, Weerd IV, van der Aalst WMP, Vanwersch R, Weske M, Wynn MT, Zerbato F. Process mining for healthcare: Characteristics and challenges. *J Biomed Inform.* 2022 Mar;127:103994. doi: 10.1016/j.jbi.2022.103994. Epub 2022 Jan 29. PMID: 35104641.
7. Dagliati A, Gatta R, Malovini A, Tibollo V, **Sacchi L**, Cascini F, Chiovato L, Bellazzi R. A Process Mining Pipeline to Characterize COVID-19 Patients' Trajectories and Identify Relevant Temporal Phenotypes From EHR Data.

- Front Public Health. 2022 May 23;10:815674. doi: 10.3389/fpubh.2022.815674. PMID: 35677768; PMCID: PMC9168006.
8. Calcaterra V, Bosoni P, Dilillo D, Mannarino S, Fiori L, Fabiano V, Carlucci P, Di Profio E, Verduci E, Mameli C, Pelizzo G, Zoia E, **Sacchi L**, Larizza C, Zuccotti G. Impaired Glucose-Insulin Metabolism in Multisystem Inflammatory Syndrome Related to SARS-CoV-2 in Children. *Children (Basel)*. 2021 May 13;8(5):384. doi: 10.3390/children8050384. PMID: 34067965; PMCID: PMC8152288.
 9. Cotogni M, **Sacchi L**, Sadikov A, Georgiev D. Asymmetry at Disease Onset Is Not a Predictor of Parkinson's Disease Progression. *J Parkinsons Dis*. 2021;11(4):1689-1694. doi: 10.3233/JPD-202525. PMID: 34250949.
 10. Bosoni P, Calcaterra V, Tibollo V, Malovini A, Zuccotti G, Mameli C, **Sacchi L**, Bellazzi R, Larizza C. Exploring the inter-subject variability in the relationship between glucose monitoring metrics and glycated hemoglobin for pediatric patients with type 1 diabetes. *J Pediatr Endocrinol Metab*. 2021 Apr 7;34(5):619-625. doi: 10.1515/jpem-2020-0725. PMID: 33823102.
 11. Gatta R, Vallati M, Fernandez-Llatas C, Martinez-Millana A, Orini S, **Sacchi L**, Lenkovicz J, Marcos M, Munoz-Gama J, Cuendet MA, de Bari B, Marco-Ruiz L, Stefanini A, Valero-Ramon Z, Michielin O, Lapinskas T, Montvila A, Martin N, Tavazzi E, Castellano M. What Role Can Process Mining Play in Recurrent Clinical Guidelines Issues? A Position Paper. *Int J Environ Res Public Health*. 2020 Sep 11;17(18):6616. doi: 10.3390/ijerph17186616. PMID: 32932877; PMCID: PMC7557817.
 12. Dagliati A, Geifman N, Peek N, Holmes JH, **Sacchi L**, Bellazzi R, Sajjadi SE, Tucker A. Using topological data analysis and pseudo time series to infer temporal phenotypes from electronic health records. *Artif Intell Med*. 2020 Aug;108:101930. doi: 10.1016/j.artmed.2020.101930. Epub 2020 Jul 15. PMID: 32972659; PMCID: PMC7536308.
 13. Chiudinelli L, Dagliati A, Tibollo V, Albasini S, Geifman N, Peek N, Holmes JH, Corsi F, Bellazzi R, **Sacchi L**. Mining post-surgical care processes in breast cancer patients. *Artificial Intelligence in Medicine* Volume 105, May 2020, Article number 101855
 14. Foadelli T, Lagae L, Goffin K, Theys T, De Amici M, **Sacchi L**, Van Loon J, Savasta S, Jansen K. Subtraction Ictal SPECT coregistered to MRI (SISCOM) as a guide in localizing childhood epilepsy. *Epilepsia Open*. 2019 Dec 26;5(1):61-72. doi: 10.1002/epi4.12373.
 15. De Amici M, Ciprandi G, Caimmi S, **Sacchi L**, Licari A, Barocci F, Testa G, Marseglia GL. Cross reactivity between recombinant parvalbumin of carp and cod and recombinant grass molecules. *J Biol Regul Homeost Agents*. 2019 Nov-Dec;33(6):1931-1933. doi: 10.23812/19-235-L.
 16. Lanzola G, Bagarotti R, **Sacchi L**, Salvi E, Alloni A, Picardi M, Sterpi I, Boninsegna R, Corbo M, Quaglini S. Bringing spatiotemporal gait analysis into clinical practice: Instrument validation and pilot study of a commercial sensorized carpet. *Comput Methods Programs Biomed*. 2020 May;188:105292. doi: 10.1016/j.cmpb.2019.105292. Epub 2019 Dec 25.
 17. Fico G, Hernandez L, Cancela J, Dagliati A, **Sacchi L**, Martinez-Millana A, Posada J, Manero L, Verdú J, Facchinetti A, Ottaviano M, Zarkogianni K, Nikita K, Groop L, Gabriel-Sanchez R, Chiovato L, Traver V, Merino-Torres JF, Cobelli C, Bellazzi R, Arredondo MT. What do healthcare professionals need to turn risk models for type 2 diabetes into usable computerized clinical decision support systems? Lessons learned from the MOSAIC project. *BMC Med Inform Decis Mak*. 2019 Aug 16;19(1):163. doi: 10.1186/s12911-019-0887-8.
 18. Salvi E, Bosoni P, Tibollo V, Kruijver L, Calcaterra V, **Sacchi L**, Bellazzi R, Larizza C. Patient-Generated Health Data Integration and Advanced Analytics for Diabetes Management: The AID-GM Platform. *Sensors (Basel)*. 2019 Dec 24;20(1):128. doi: 10.3390/s20010128.
 19. Salvi E, Parimbelli E, Quaglini S, **Sacchi L**. Eliciting and Exploiting Utility Coefficients in an Integrated Environment for Shared Decision-Making. *Methods Inf Med*. 2019 Jun;58(1):24-30. doi: 10.1055/s-0039-1692416.
 20. Raffiotta F, da Silva Escoli R, Quaglini S, Rognoni C, **Sacchi L**, Binda V, Messa P, Moroni G. Idiopathic Retroperitoneal Fibrosis: Long-term Risk and Predictors of Relapse. *Am J Kidney Dis*. 2019 Jun 13. pii: S0272-6386(19)30740-1. doi: 10.1053/j.ajkd.2019.04.020

21. Viani N, Miller TA, Napolitano C, Priori SG, Savova GK, Bellazzi R, **Sacchi L**. Supervised methods to extract clinical events from cardiology reports in Italian. *J Biomed Inform.* 2019 Jul;95:103219. doi: 10.1016/j.jbi.2019.103219.
22. Cavalera F, Zanoni M, Merico V, **Sacchi L**, Bellazzi R, Garagna S, Zuccotti M. Chromatin organization and timing of polar body I extrusion identify developmentally competent mouse oocytes. *Int J Dev Biol.* 2019;63(3-4-5):245-251. doi: 10.1387/ijdb.180362sg.
23. Licari A, Brambilla I, **Sacchi L**, Marseglia G, Ciprandi G. Periostin, type 2 biomarker, is not associated with asthma control grade in asthmatic allergic children. *Respir Med.* 2019 May;151:118-120. doi: 10.1016/j.rmed.2019.04.010.
24. Calcaterra V, Cena H, Manuelli M, **Sacchi L**, Girgenti V, Larizza C, Pelizzo G. Body hydration assessment using bioelectrical impedance vector analysis in neurologically impaired children. *Eur J Clin Nutr.* 2019 Jan 16. doi: 10.1038/s41430-018-0384-7.
25. Teije AT, Popow C, Holmes JH, **Sacchi L**. Preface: AIME 2017. *Artif Intell Med.* 2018 Sep;91:1-2. doi: 10.1016/j.artmed.2018.10.005.
26. Teliti M, Cogni G, **Sacchi L**, Dagliati A, Marini S, Tibollo V, De Cata P, Bellazzi R, Chiovato L. Risk factors for the development of micro-vascular complications of type 2 diabetes in a single-centre cohort of patients. *Diab Vasc Dis Res.* 2018 Sep;15(5):424-432. doi: 10.1177/1479164118780808.
27. Parimbelli E, Marini S, **Sacchi L**, Bellazzi R. Patient similarity for precision medicine: A systematic review. *J Biomed Inform.* 2018 Jul; 83:87-96. doi: 10.1016/j.jbi.2018.06.001. Epub 2018 Jun 1.
28. Teliti M, Cogni G, **Sacchi L**, Dagliati A, Marini S, Tibollo V, De Cata P, Bellazzi R, Chiovato L. Risk factors for the development of micro-vascular complications of type 2 diabetes in a single-centre cohort of patients. *Diab Vasc Dis Res.* 2018 Jun 1:1479164118780808. doi: 10.1177/1479164118780808. [Epub ahead of print]
29. Moroni G, Vercelloni PG, Quaglini S, Gatto M, Gianfreda D, **Sacchi L**, Raffiotta F, Zen M, Costantini G, Urban ML, Pieruzzi F, Messa P, Vaglio A, Sinico RA, Doria A. Changing patterns in clinical-histological presentation and renal outcome over the last five decades in a cohort of 499 patients with lupus nephritis. *Ann Rheum Dis.* 2018 May 5. pii: annrheumdis-2017-212732. doi: 10.1136/annrheumdis-2017-212732. [Epub ahead of print]
30. Foadelli T, Piccorossi A, **Sacchi L**, De Amici M, Tucci M, Brambilla I, Marseglia GL, Savasta S, Verrotti A. Clinical characteristics of headache in Italian adolescents aged 11-16 years: a cross-sectional questionnaire school-based study. *Ital J Pediatr.* 2018 Apr 4;44(1):44. doi: 10.1186/s13052-018-0486-9
31. Orphanou K, Dagliati A, **Sacchi L**, Stassopoulou A, Keravnou E, Bellazzi R. Incorporating repeating temporal association rules in Naïve Bayes classifiers for coronary heart disease diagnosis. *J Biomed Inform.* 2018 May;81:74-82. doi: 10.1016/j.jbi.2018.03.002
32. Dagliati A, Tibollo V, Cogni G, Chiovato L, Bellazzi R, **Sacchi L**. Careflow Mining techniques to explore Type 2 Diabetes evolution. *J Diabetes Sci Technol.* 2018 Mar;12(2):251-259. doi: 10.1177/1932296818761751
33. Dagliati A, **Sacchi L**, Tibollo V, Cogni G, Teliti M, Martinez-Millana A, Traver V, Segagni D, Posada J, Ottaviano M, Fico G, Arredondo MT, De Cata P, Chiovato L, Bellazzi R. A dashboard-based system for supporting diabetes care. *J Am Med Inform Assoc.* 2018 May 1;25(5):538-547. doi: 10.1093/jamia/ocx159.
34. Viani N, Larizza C, Tibollo V, Napolitano C, Priori SG, Bellazzi R, **Sacchi L**. Information extraction from Italian medical reports: An ontology-driven approach. *Int J Med Inform.* 2018 Mar;111:140-148. doi: 10.1016/j.ijmedinf.2017.12.013
35. Holmes JH, **Sacchi L**, Bellazzi R, Peek N. Artificial Intelligence in Medicine AIME 2015. *Artif Intell Med.* 2017 Sep;81:1-2. doi: 10.1016/j.artmed.2017.06.011
36. Licari A, Castagnoli R, Denicolò C, Rossini L, Seminara M, **Sacchi L**, Testa G, De Amici M, Marseglia GL; Omalizumab in Childhood Asthma Italian Study Group. Omalizumab in Children with Severe Allergic Asthma: The Italian Real-Life Experience. *Curr Respir Med Rev.* 2017 Mar;13(1):36-42. doi: 10.2174/1573398X13666170426094536

37. Dagliati A, Marini S, **Sacchi L**, Cogni G, Teliti M, Tibollo V, De Cata P, Chiovato L, Bellazzi R. Machine Learning Methods to Predict Diabetes Complications. *J Diabetes Sci Technol*. 2017 May 1;1932296817706375. doi: 10.1177/1932296817706375.
38. Martin-Sanchez FJ, Aguiar-Pulido V, Lopez-Campos GH, Peek N, **Sacchi L**. Secondary Use and Analysis of Big Data Collected for Patient Care. Contribution from the IMIA Working Group on Data Mining and Big Data Analytics. *Yearb Med Inform*. 2017 Aug;26(1):28-37. doi: 10.15265/IY-2017-008.
39. Peleg M, Shahar Y, Quaglini S, Fux A, García-Sáez G, Goldstein A, Hernando ME, Klimov D, Martínez-Sarriegui I, Napolitano C, Parimbelli E, Rigla M, **Sacchi L**, Shalom E, Soffer P. MobiGuide: a personalized and patient-centric decision-support system and its evaluation in the atrial fibrillation and gestational diabetes domains. *User Modeling and User-Adapted Interaction* Volume 27, Issue 2, 1 June 2017, Pages 159-213
40. Peleg M, Shahar Y, Quaglini S, Broens T, Budasu R, Fung N, Fux A, García-Sáez G, Goldstein A, González-Ferrer A, Hermens H, Hernando ME, Jones V, Klebanov G, Klimov D, Knoppel D, Larburu N, Marcos C, Martínez-Sarriegui I, Napolitano C, Pallàs À, Palomares A, Parimbelli E, Pons B, Rigla M, **Sacchi L**, Shalom E, Soffer P, van Schooten B. Assessment of a personalized and distributed patient guidance system. *Int J Med Inform*. 2017 May;101:108-130. doi: 10.1016/j.ijmedinf.2017.02.010.
41. Dagliati A, **Sacchi L**, Zambelli A, Tibollo V, Pavesi L, Holmes JH, Bellazzi R. Temporal electronic phenotyping by mining careflows of breast cancer patients. *J Biomed Inform*. 2017 Feb; 66:136-147. doi: 10.1016/j.jbi.2016.12.012.
42. Tagliaferri S, Esposito FG, Fagioli R, Di Cresce M, **Sacchi L**, Signorini M, Campanile M, Martinelli P, Magenes G. Ethnic analogies and differences in fetal heart rate variability signal: a retrospective study. Accepted for Publication, *The Journal of Obstetrics and Gynaecology Research*, September 2016.
43. Canavero I, Cavallini A, **Sacchi L**, Quaglini S, Arnò N, Perrone P, Bono G, Marcheselli S, Micieli G. Safely Addressing Patients with Atrial Fibrillation to Early Anticoagulation after Acute Stroke. *J Stroke Cerebrovasc Dis*. 2016 Sep 7. pii: S1052-3057(16)30294-4. doi: 10.1016/j.jstrokecerebrovasdis.2016.08.022. [Epub ahead of print]
44. **Sacchi L**, Holmes JH. Progress in Biomedical Knowledge Discovery: A 25-year Retrospective. *Yearb Med Inform* 2016 Suppl. 1: S117-S129.
45. **Sacchi L**, Lanzola G, Viani N, Quaglini S. Personalization and patient involvement in decision support systems: current trends. *Yearb Med Inform*. 2015 Aug 13;10(1):106-18. doi: 10.15265/IY-2015-015
46. **Sacchi L**, Capozzi D, Bellazzi R, Larizza C. JTSA: an open source framework for time series abstractions. *Comput Methods Programs Biomed*. 2015 Oct;121(3):175-88. doi: 10.1016/j.cmpb.2015.05.006.
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