

Pozzi Giuseppe

Curriculum Vitae et Studiorum

Giuseppe Pozzi was born in Como (CO), Italy, on November 12th 1961. Since November 1st, 2002 he has been associate professor at the Dipartimento di Elettronica, Informazione e Bioingegneria of the Politecnico di Milano.

Degrees

Giuseppe Pozzi received the Laurea Degree in Electrical Engineering from Politecnico di Milano on June 1986. He received the Ph.D. degree on July 1992. On December 1992 he received a post-doc fellowship from Politecnico di Milano. He joined the Dipartimento di Elettronica of Politecnico di Milano on October 1993, holding a position of Researcher.

Research Activities

Past activities. Giuseppe Pozzi's past interests relate to field of Medical Informatics (computer-based analysis of the electrocardiographic signal, multiservice software for medicine, biomedical image compression, classification of public domain medical software, object-oriented databases for medicine), of Workflow Management Systems - WFMS - (conceptual modeling of a workflow process, workflow execution by active rules, schema migration for a workflow, exception management), and of temporal databases (definition of a formal data model to manage information expressed at different granularity levels).

Current activities. At present, his interests are mainly focused on active database systems and on temporal database systems and their application to Workflow Management Systems (WFMS).

The topics for the current research activity include:

- Temporalities in WfMSs: temporal information plays a key role in any human activity. A temporal model is defined to suitably manage all the information – and their temporal aspects – which are relevant for the automatic execution of processes by a WfMS. The temporal models consider the process model, the information model, the organizational model.
- An autonomous event manager: the considered event manager is capable of detecting several types of event, such as data modification event (detected by the underlying DBMS), temporal events (simple ones and composite ones - with an anchor event), external events (signaled by an external application). In front of the detected events, the event manager may test conditions and, possibly, execute actions: the autonomous, stand-alone server adopts the ECA (event-condition-action) paradigm.
- Data and schema migration from object-oriented databases to XML documents: the ODL (Object Definition Language) and OIF (Object Interchange Format) define a standard way for sharing objects. The research introduced a novel technique to automatically translate to XML documents both the schema of the database (along with the inheritance relationship) and the contained data.
- Temporal query language managing four temporal dimensions: an extension of the SQL query language is defined. Such an extension aims at managing the two traditional temporal dimensions of information (valid time, transaction time) as well as some more other dimensions (availability time, event time). The query language can be extended to manage also additional temporal dimensions.

- Temporal representation and reasoning in Medicine: this relevant topic has been covered by a special issue of the international journal Artificial Intelligence in Medicine. Carlo Combi and Giuseppe Pozzi served as co-editors of the special issue.

Relevant publication. Giuseppe Pozzi and Carlo Combi (Università degli Studi di Verona) are co-authors of the paper “Architectures for a Temporal Workflow Management System”, published in the Proc. of the 19th Symposium on Applied Computing, Nicosia, Cyprus, 2004 p. 659-666. The paper has been included into the monthly rankings of the “Top 10 Downloads from the ACM Digital Library” from January 2005 till December 2007. Since January 2008, ACM has not been publishing any longer the rankings for the Top Downloaded Papers.

Teaching Activities

Giuseppe Pozzi held or is still holding teaching activity in the following courses: Fundamentals of Informatics, Computer Systems, Fundamentals of Informatics II, Database Management Systems, Projects of Database Management Systems, Informatics II, Computing Systems, Workgroup and Workflow Systems.

Other Activities

Giuseppe Pozzi has been serving as referee for several international conferences and journals for more than 15 years.

Giuseppe Pozzi was thesis advisor for more than 50 students over the last 10 years.

Giuseppe Pozzi is member of the Board of Teachers for the Interdepartmental Ph.D. Program in Biomedical Engineering.

Giuseppe Pozzi co-chaired the Doctoral Consortium at the IEEE ICHI (International Conference on Health informatics) conference in Philadelphia, PA, September 9th-11th, 2013.

Further Information

Further details available at the Giuseppe Pozzi's main page: <http://home.deib.polimi.it/pozzi/>

Contacts

Pozzi Giuseppe, Ph.D.

Polo Territoriale di Como del Politecnico di Milano

Via Anzani 42

22100 Como – CO - ITALY

e-mail: giuseppe.pozzi@polimi.it

phone: +39-031-332.7332

Complete List of Publications

International Journals

1. Pincirolì F., Pozzi G., A Drug-to-drug Interaction Package, *Computer Methods and Programs in Biomedicine*, 1989, vol. 28, n. 3, p. 183-189
2. Pincirolì F., Combi C., Pozzi G., Rossi R., MS*2/Cardio: towards a Multi-service Medical Software for Cardiology, *Methods of Information in Medicine*, 1992, vol. 31, n. 1, p. 18-27
Also published in: Van Bommel J. H., Mccray A. T. (eds.), *Yearbook 93 of Medical Informatics: Sharing Knowledge and Information*. Stuttgart, Schattauer, 1993, p. 206-215
3. Pincirolì F., Combi C., Pozzi G., Object-oriented DBMS Techniques for Time-oriented Medical Record, *Medical Informatics*, 1992, vol. 17, n. 4, p. 231-241
4. Pincirolì F., Combi C., Pozzi G., Portoni L., Negretto M., Invernizzi G., Some Experiments in Compressing Angiocardiographics Images According to the Peano-Hilbert Scan Path, *Computer Methods and Programs in Biomedicine*, 1994, vol. 43, n. 3-4, p. 247-253
5. Pincirolì F., Combi C., Pozzi G., A Database Schema for the Public-Domain Medical Software, *Computers in Biology and Medicine*, 1994, vol. 24, n. 4, p. 243-254
6. Combi C., Pincirolì F., Pozzi G., ARCADIA: a System for the Integration of Angiocardiographic Data and Images by an Object-Oriented DBMS, *Computers and Biomedical Research*, 1995, vol. 28, n. 1, p. 5-23
7. Combi C., Pincirolì F., Pozzi G., Managing Different Time Granularities of Clinical Information by an Interval-based Temporal Data Model, *Methods of Information in Medicine*, 1995, vol. 34, n. 5, p. 458-474
8. Portoni L., Combi C., Pozzi G., Pincirolì F., Fritsch J.P., Brennecke R., Angiocardiographic Digital Still Images Compressed via Irreversible Methods: Concepts and Experiments, *Int. Journal of BioMedical Computing*, 1997, vol. 46, n. 3, p. 185-204
9. Casati F., Ceri S., Pernici B., Pozzi G., Workflow Evolution, *Int. Journal Data and Knowledge Engineering*, 1998, vol. 24, n. 1, p. 211-239
The paper is the third most-cited paper among those published by the journal *Data and Knowledge Engineering*, as stated in *Data and Knowledge Engineering*, 2008, vol. 67, n. 2, p. 254
10. Casati F., Ceri S., Paraboschi S., Pozzi G., Specification and Implementation of Exceptions in Workflow Management Systems, *ACM Transactions on Database Systems*, vol. 24, n. 3, September 1999, p. 405-451
11. Combi C., Pozzi G., HMAP - A Temporal Data Model Managing Intervals with Different Granularities and Indeterminacy from Natural Language Sentences, *VLDB Journal* vol. 9, n. 4, 2001, p. 294-311
12. Combi C., Pozzi G., Guest Editorial: Temporal Representation and Reasoning in Medicine, Special issue on Temporal Representation and Reasoning, *Int'l Journal on Artificial Intelligence in Medicine*, vol. 38, n. 2, 2006, p. 97-100
13. Adlassnig K.P., Combi C., Das A.K., Keravnou E., Pozzi G., Temporal Representation and Reasoning in Medicine: Research Directions and Challenges, Special issue on Temporal Representation and Reasoning, *Int'l Journal on Artificial Intelligence in Medicine*, vol. 38, n. 2, 2006, p. 101-113
14. Ceri S., Bolchini C., Braga D., Brambilla M., Campi A., Comai S., Fraternali P., Lanzi P.L., Masseroli M., Matera M., Negri M., Pelagatti G., Pozzi G., Quintarelli E., Schreiber F.A., Tanca L., *Data and Web Management Research at Politecnico di Milano*, *SIGMOD Record*, vol 36, n. 4, 2007, p. 43-48
15. Daniel F., Matera M., Pozzi G., Managing Runtime Adaptivity through Active Rules: the Bellerofonte Framework, *Journal of Web Engineering*, vol 7, n. 3, 2008, p. 179-199
16. Daniel F., Pozzi G., An Open ECA Server for Active Applications, *Journal ad Database Management*, vol. 19, n. 4, 2008, p. 1-20
17. Combi C., Gozzi M., Posenato R., Pozzi G., Conceptual Modeling of Flexible Temporal Workflows, *ACM Transactions on Autonomous and Adaptive Systems*, vol. 7, n. 2, 2012, 19
18. Combi C., Pozzi G., Rossato R., Querying Temporal Clinical Databases on Granular Trends, *Journal of Biomedical Informatics*, vol. 45, n. 2, 2012, p. 273-291

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19. Invernizzi G., Pizzuto R., Pozzi G., Computerized Management of a Coronary Care Unit, *Medicina e Informatica*, 1989, n. 2, p. 142-145
20. Pozzi G., Pincirolì F., An Adverse Drug Interaction Package, *Medicina e Informatica*, 1989, n. 2, p. 152-154
21. Pincirolì F., Combi C., Pozzi G., Rossi R., MSx2: un Caso di Software Multiservizio per il Follow-up di Pazienti a Rischio, *Medicina e Informatica*, 1992, vol. 9, n. 1, p. 18-37
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25. Pincirolì F., Pellati F., Pozzi G., Reni G., Comparisons in the Frequency Domain among Intervals, Maximum Amplitudes and Areas Time Sequences from 30 Minutes Long VCG Tracings in Young Normal Subjects, In: *Computers in Cardiology*. Washington DC, IEEE Computer Society Press, c1987, p. 591-594
26. Pincirolì F., Pozzi G., A PC-based Drug-interaction Package, in: Serio, A., et al. (eds), *Medical Informatics Europe '87: 7th International Congress*. S.I., s.n., 1987, p. 538-544
27. Pincirolì F., Pozzi G., Rossi R., Piovosi M., Capo A., Olivieri R., Della Torre M., A Respiration-related EKG Database, in: *Computers in Cardiology*. Washington DC, IEEE Computer Society Press, c1989, p. 477-480
28. Pincirolì F., Pozzi G., Rossi R., Processing Electrocardiograms towards Respiratory Signals, in: Harris G., Walker C. (eds.), *Annual International Conference of the IEEE Engineering in Medicine & Biology Society*: vol. 10, 1988. New York NY, IEEE, c1988, p. 139-140
29. Invernizzi G., Pincirolì F., Pozzi G., Continuing Medical-informatics Education in the Practice of a Hospital Clinical Cardiology Department, in: Salamon R., Protti D., Moehr J. (eds.), *Medical Informatics and Education: International Symposium*. S.I., s.n., 1989, p. 346-349
30. Pincirolì F., Combi C., Pozzi G., Rossi R., Towards a Multiservice Medical Software for Cardiology, in: Kingsland L. (ed.), *13th Annual Symposium on Computer Applications in Medical Care*. Washington DC, IEEE Computer Society Press, c1989, p. 659-663
31. Pincirolì F., Combi C., Pozzi G., Rossi R., MSx2/Cardio: an Implementation of a Multiservice Medical Software, in: Kim Y., Spelman F. A. (eds.), *Annual International Conference of the IEEE Engineering in Medicine & Biology Society*: vol. 11, 1989. New York NY, IEEE, c1989, p. 171-172
32. Pincirolì F., Combi C., Pozzi G., Rossi R., Improving the Management of PTCA Data and Images by OODBMS, in: *Computers in Cardiology*. Los Alamitos CA, IEEE Computer Society Press, 1991, p. 329-332
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43. Pinciroli F., Combi C., Pozzi G., Portoni L., Negretto M., Invernizzi G., Some Experiments in Compressing Angiocardiographic Images According to the Peano-Hilbert Scan Path, in: Reichert A., et al. (eds.), MIE 93: 11th International Congress of the European Federation for Medical Informatics. London, Freund Publishing House, 1993, p. 362-365
44. Pinciroli F., Combi C., Pozzi G., Portoni L., Invernizzi G., ITACA: an Irreversible Thresholdbased Angiocardiographic Images Compressor and Archiver Based on New Error Limitation Criteria, in: Lemke E., et al. (eds.), CAR '93 Computer Assisted Radiology International Symposium. Berlin, Springer, 1993, p. 71-76
45. Pinciroli F., Combi C., Pozzi G., Battistella M., Pedrotti M., A Database for the Medical Public-domain Software: D-MePS, in: Safran C. (ed.), 17th Annual Symposium on Computer Applications in Medical Care. New York NY, McGraw-Hill, 1993, p. 897
46. Portoni L., Combi C., Negretto M., Pinciroli F., Pozzi G., Invernizzi G., New Irreversible Compression Techniques for Archiving Angiocardiographic Static Images, Journal of the American College of Cardiology, 1994, February, p. 102A
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51. Combi C., Pinciroli F., Pozzi G., Temporal Clinical Data Modelling and Implementation for PTCA Patients in an OODBMS Environment, in: Computers in Cardiology. Los Alamitos CA, IEEE Computer Society Press, 1994, p. 505-508
52. Portoni L., Combi C., Pinciroli F., Pozzi G., Fritsch H., Brennecke R., Assessment of ITACA's Compression Methods on Digital Coronary Angiogram, in: Lemke, E., et al. (eds.), CAR '95 Computer Assisted Radiology International Symposium. Berlin, Springer, 1995, p. 389-394
53. Casati F., Ceri S., Pernici B., Pozzi G., Conceptual Modeling of Workflows, Proc. of the 14th Object-Oriented and Entity-Relationship Approach int. conf., GoldCoast, Australia, Springer-Verlag Lectures Notes in Computer Science, 1995, p. 341-354
54. Casati F., Ceri S., Pernici B., Pozzi G., Semantic Workflow Interoperability, Proc. of the 5th Extending Database Technology int. conf., Springer-Verlag Lectures Notes in Computer Science, 1996, p. 443-462
55. Combi C., Pinciroli F., Pozzi G., TIME-NESIS: a Data Model in Managing Time Granularity of Natural Language Clinical Information, in: Baraona P. et al. (eds.) Artificial Intelligence in Medicine, Proc. AIME '95 Artificial Intelligence in Medicine Europe, Berlin, Springer, 1995, p. 397-398
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- Representation and Reasoning, Key West (Fl), May 1996, IEEE Comp. Soc. Press, 1996, p. 88-93
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 58. Casati F., Ceri S., Pernici B., Pozzi G., Workflow Evolution, Proc. of the 15th Int. Conf. on Conceptual Modeling ER '96, Cottbus, Germany, Springer-Verlag Lectures Notes in Computer Science, 1996, p. 438-455
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 61. Combi C., Pozzi G., Temporal Conceptual Modeling of Workflows, Proc. of the 22nd Int. Conf. on Conceptual Modeling ER '03, Chicago IL, 2003 p. 59-76
 62. Combi C., Pozzi G., Architectures for a Temporal Workflow Management System, Proc. of the 19th Symposium on Applied Computing, Nicosia, Cyprus, 2004 p. 659-666.
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 63. Combi C., Pozzi G., Building XML Documents and Schemas to Support Object Data Exchange and Communication, Proc. of the 14th Database and Expert Systems Applications int. conf., Copenhagen, Denmark, Springer-Verlag Lectures Notes in Computer Science, 2005, p. 353- 364.
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