

RAFAEL RAMIREZ-MELENDEZ

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DOB: 18/10/1966

EDUCATION

- JANUARY 1993 - FEBRUARY 1997 **Computer Science Department, Bristol University, Bristol, UK.**
Ph.D. Computer Science.
Thesis: *A Logic-Based Concurrent Object-Oriented Programming Language.*
- OCTOBER 1991 - OCTOBER 1992 **Computer Science Department, Bristol University, Bristol, UK.**
M.Sc. Computer Science in Artificial Intelligence.
Thesis: *Executing Temporal Logic.*
- OCTOBER 1986 - SEPTEMBER 1991 **Universidad Nacional Autónoma de México, Mexico City, Mexico.**
B.Sc. Honours Mathematics (with Distinction).
Thesis: *Formal Languages and Logic Programming*
- OCTOBER 1980 - SEPTEMBER 1988 **National School of Music, UNAM, Mexico City, Mexico.**
Musical Studies
Grade 5 classical Guitar, Grade 8 classical Violin.

PROFESSIONAL EXPERIENCE

- APRIL 2011 - PRESENT **Department of Information and Communication Technologies, Universitat Pompeu Fabra, Barcelona.**
Associate Professor
- APRIL 2008 - APRIL 2011 **Department of Information and Communication Technologies, Universitat Pompeu Fabra, Barcelona.**
Associate Professor – Head of Computer Science Studies
- APRIL 2003 - MARCH 2008 **Department of Information and Communication Technologies, Universitat Pompeu Fabra, Barcelona.**
Assistant Professor
- SEPTEMBER 2002 - MARCH 2003 **Department of Information and Communication Technologies, Universitat Pompeu Fabra, Barcelona.**
Visiting Lecturer
- MAY 2002 - AUGUST 2002 **Institut National de Recherche en Informatique et en Automatique (INRIA), France.**
Research Fellow
- JANUARY 1999 - ABRIL 2002 **School of Computing, National University of Singapore, Singapore.**
Fellow
- MARCH 1997 - DECEMBER 1998 **School of Computing, National University of Singapore, Singapore.**
Postdoctoral Fellow.
- JANUARY 1996 - JUNE 1996 **South Bristol Learning Network, Bristol, UK.**
Internet Consultant.
- OCTOBER 1990 - SEPTEMBER 1991 **Mathematics Department, National University of Mexico, Mexico City, Mexico.**
Teaching Assistant.

PARTICIPATION IN RESEARCH PROJECTS (AS PRINCIPAL INVESTIGATOR)

Tasks as Principal investigator (DRIMS, ProSeMus and ProMusic projects): grant proposal writing (100%), research direction (100%), personnel hiring (100%), coordination of interdisciplinary teams of more than 10 researchers (100%), report preparation (100%), and project presentation for evaluation (100%).

- **DRIMS: Sound and Music Information Retrieval and Description** (TIN2009-14247-C02-01), Spanish Ministry of Science and Innovation (MICINN), 2009- 2013, 131,500 Euros.
- **SIEMPRE: Social Interaction and Entrainment using Music PeRformance Experimentation** (European Project, FET Open Proactive), 2010-2013, 240,000 Euros.
- **ProSeMus: Music Semantic Processing** (TIN2006-14932-C02-01), Spanish Ministry of Science and Innovation (MICINN), 2006-2009, 130,000 Euros
- **ProMusic: Content-based Music Processing** (TIC-2003-07776-C02), Spanish Ministry of Science and Innovation (MICINN), 2003-2006, 160,800 Euros
- **Real-Time Concurrent Programming in Tempo**, National University of Singapore Academic Research Fund, 2001-2002, 16,000 Euros
- **Grant for Postgraduate Study Abroad**, National Autonomous University of Mexico, 1991-1996, 100,000 Euros

RESEARCH VISITS / STAGES

- Computer Science Department, Vrije Universiteit Brussel, Brussels, Belgium, (2013)
- Center for Computer Research in Music and Acoustics, Stanford University, USA (2011).
- School of Informatics, City University London, UK (2009).
- Computer Science Department, Universidad Carlos III de Madrid, Spain (2009).
- Computer Science Department, National University of Singapore, Singapore (2007).
- Faculty of Music Studies, University of Athens, Greece (2006).
- School of Music and Sonic Arts, Queen's University Belfast, UK (2005).
- Languages and Computer Systems Department, Alicante University, Spain (2005).
- Computer Science Department, National University of Singapore, Singapore (1997-2002).
- Institute of Applied Mathematics and Systems, National University of Mexico, Mexico, (1999).
- Computer Science Department, Bristol University, UK, (1991-1997).
- Computer Science Department, Federal University of Rio de Janeiro, Brazil, (1996).

SOFTWARE

- Jazzit: Expressive Performance System
- Tempov1.0: Implementation of the Tempo programming language interpreter.
- Tempo++v1.0: Implementation of the Tempo++ concurrent object-oriented programming language.
- Web-Based Declarative Thread Synchronization and Visualization tool (<http://www.dtic.upf.edu/~rramirez/Tempo/main.html>).

PROFESSIONAL ACTIVITIES

- **Chair** of International Workshop on Machine Learning and Music 2013, European Conference on Machine Learning ECML/PKDD 2013, Prague, Czech Republic (<https://sites.google.com/site/musicmachinelearning13>).
- **Guest Editor**, Journal of New Music Research, Special Issue on Music & Machine Learning, 2014
- **Chair** of International Workshop on Machine Learning and Music 2012, International Conference on Machine Learning ICML 2012, Edinburgh, UK (<https://sites.google.com/site/musicmachinelearning12>).
- **Chair** of International Workshop on Machine Learning and Music 2011, Neural Information Processing Systems NIPS 2011, Granada, Spain, (<https://sites.google.com/site/musicmachinelearning11>).
- **Chair** of International Workshop on Machine Learning and Music, in conjunction with ACM Multimedia, ACM Multimedia 2010, Florence, Italy (www.dtic.upf.edu/~rramirez/MML10)
- **Guest Editor**, Journal of New Music Research, Special Issue on Music & Machine Learning, 40(2), 2011 (<http://www.dtic.upf.edu/~rramirez/jnrm-cfp.html>)
- **Scientific Program Co-Chair** of Sound and Music Computing Conference 2010, Barcelona (<http://smc2010.smcnetwork.org>)
- **Chair** of International Workshop on Machine Learning and Music 2009, in conjunction with European Conference in Machine Learning, ECML PKDD 2009, Bled, Slovenia (www.dtic.upf.edu/~rramirez/MML09)
- **Chair** of International Workshop on Machine Learning and Music 2008, in conjunction with International Conference on Machine Learning, ICML 2008, Helsinki, Finland (www.dtic.upf.edu/~rramirez/MML08)
- **Chair** of International Workshop on Artificial Intelligence and Music 2007, in conjunction with

International Joint Conference on Artificial Intelligence, IJCAI2007, Hyderabad, India
(www.dtic.upf.edu/~rramirez/MusAI)

- Spanish Delegate for COST IC0601 Action on Sound Interaction Design
- Program Committee for The European Workshop on Evolutionary Music and Art 2006-2014
- Program Committee for Music, Brain & Cognition 2007
- Program Committee for The Sound and Music Computing Conference 2007-2011
- Program Committee for The International Computer Music Conference 2007-2010
- Program Committee for The International Florida Artificial Intelligence Research Society Conference 2006-2008
- Program Committee for The International Society for Music Information Retrieval Conference 2008-2009
- Program Committee for The Workshop on MSc dissertation and PhD thesis in AI 2006
- Scientific Committee for The Best MSc dissertation/ PhD thesis contest 2006

INVITED SEMINARS

- *Brain-Computer Music Interfaces*, Department of Music, University of Jyväskylä, Finland (2013).
- *Machine Learning, Music Expression and Brain-Computer Interfaces*, Computer Science Department, Vrije Universiteit Brussel, Brussels, Belgium, (2013).
- *Artificial Intelligence and Data Mining in Retail Innovation*, ESADE Business School, Barcelona, Spain, (2013)
- *Data Mining for Business*, ESADE Business School, Barcelona, Spain, (2013)
- *A Machine Learning Approach to Expressive Performance Patterns*, Languages and Computer Systems Department, Alicante University, Spain (2011).
- *Advanced Music Informatics*, Computer Science Department, City University London, London, UK, (2009).
- *Machine Learning and Music*, Faculty of Music Studies, University of Athens, Greece (2006).
- *An Artificial Intelligence Approach to Expressive Performance*, School of Music and Sonic Arts, Queen's University Belfast, UK (2005).
- *Declarative Concurrent Programming*, Institut National de Recherche en Informatique et en Automatique, France (2002).
- *A Logic-Based Concurrent Programming Language*, Institute of Applied Mathematics and Systems, National University of Mexico, Mexico, (1999).
- *The Tempo Programming Language*, Computer Science Department, Federal University of Rio de Janeiro, Brazil, (1996).

TEACHING EXPERIENCE

GRADUATE COURSES

- Advanced Topics in Information Technology - Machine Learning (Master & PhD course), Universitat Pompeu Fabra, 2011-2014
- Artificial Intelligence in Retail Innovation, (MBA program), ESADE Business School 2012-2014
- Model Thinking, (MBA Program), ESADE Business School, 2012-2013.
- Advanced topics in Music Technology, Universitat Pompeu Fabra (PhD course), 2005-2006
- Theory and Algorithms, Universitat Pompeu Fabra (PhD course), 2004-2005
- Concurrent Programming, Universidad Autónoma de Sinaloa (Master course), 2003-2004
- Machine Learning and Music (Master course), Universitat Pompeu Fabra, 2007-2009
- Logic Programming (Master AI course), University of Bristol, 1996.

UNDERGRADUATE COURSES

- Machine Learning and Pattern Recognition, Universitat Pompeu Fabra, 2013-2014
- Computational Logic, Universitat Pompeu Fabra, 2010-2011
- Operating Systems, Universitat Pompeu Fabra, 2010-2013
- Machine learning and Arts, City University London, 2009-2010
- Logic and Formal Languages, Universitat Pompeu Fabra, 2004-2010
- Compilers, Universitat Pompeu Fabra, 2002-2014

- Programming III, Universitat Pompeu Fabra, 2004-2005
- Logic and Formal Systems, National University of Singapore, 2000-2002
- Constraint and Logic Programming, National University of Singapore, 1999-2001
- Operating Systems, National University of Singapore, 1999-2002
- Discrete Mathematics, National University of Singapore, 1997-1999.
- Algorithms and Data Structures, National University of Singapore, 1997-1998.

TEACHING INNOVATION AWARDS/GRANTS

- Robots as a tool for integrating theory and practical aspects in computer science courses (2010-2011)
- Development of programming environments for Robots. Integrating theory and practice (2011-2012)
- Learning by doing: robots and brain-computer interfaces as a teaching tool (2012-2013)
- The use of robots and brain-computer interfaces for teaching in computer science courses (2013-2014)

STUDENT SUPERVISION

PHD THESES

- Amaury Hazan, 2009. *Computational Modeling of Expressive Music Performance: New Machine Learning Approaches for Dealing with Real-World Data*. UPF. Barcelona.
- Esteban Maestre, 2009. *Coding Instrumental Gestures. Towards a quantitative description of instrumental gestures in excitation-continuous musical instruments*, UPF. Barcelona.
- Marco Marcini, (expected to defend February 2014), *Computational models of ensemble music performance: a machine learning approach*, UPF, Barcelona.
- Zacharias Vamvakousis (expected to finish December 2014), *A brain-computer interface method combined with eye tracking interaction*, UPF, Barcelona.
- Sergio Giraldo (expected to finish 2015), *Computational Modeling of Emotion, Expression, and Interaction in Music Performance*, UPF, Barcelona.

MASTER THESES

- Maciá Forteza, 2013. *An EEG-based Emotion-driven Music Control System*, UPF, Barcelona.
- Sergio Giraldo, 2012. *Modeling Embellishment, Duration and Energy Expressive Transformations in Jazz Guitar*, UPF, Barcelona.
- Imanol Gómez, 2011. *fMRI Sonification and Brain Activity Prediction*, UPF, Barcelona.
- Zacharias Vamvakousis, 2011. *A Gaze-Controlled Musical Instrument for Disabled People*, UPF, Barcelona.
- Andreas Neocleous, 2010. *Modeling Emotions in Violin and Saxophone Expressive Performances*, UPF, Barcelona.
- Daniel Martín, 2009. *Automatic Accompaniment for improvised music*, UPF, Barcelona.
- Montserrat Puiggros, 2005. *Automatic characterization and generation of expressive ornaments from bassoon audio recordings*, UPF, Barcelona

FINAL YEAR PROJECTS

- Directed over 30 Final Year Projects mainly in the areas of Music Informatics, Information Retrieval, Brain-computer Interfaces, Programming Language Design, Formal Program Verification, and Machine Learning.

UNIVERSITY SERVICE

- Mentor Program Supervisor, ESUP, Universitat Pompeu Fabra, 2012-2014
- Head of Computer Science Studies, Universitat Pompeu Fabra, 2008 -2011
- School of Computing (ESUP) Direction Team Member, Universitat Pompeu Fabra, 2008 – 2012
- Computer Science Teaching Area Coordinator, DTIC, Universitat Pompeu Fabra, 2009 - 2013
- Final Year Projects Coordinator, ESUP, Universitat Pompeu Fabra, 2009 – 2012
- Practicum (Student Internships) Coordinator, School of Computing, Universitat Pompeu Fabra, 2009 - 2012
- Computer Science Studies Curriculum Development Committee Member, Universitat Pompeu Fabra, 2008

- Responsible for School of Computing Web Design and Implementation, Universitat Pompeu Fabra, 2009
- Young Gifted Students Mentor Program Supervisor, School of Computing, Universitat Pompeu Fabra, 2010
- Student Mobility (ERASMUS) Coordinator, School of Computing, Universitat Pompeu Fabra, 2008 – 2009

REFEREED PUBLICATIONS

SCI JOURNALS

- Ramirez, R. and Vamvakousis, Z. (submitted). A Low-Cost Auditory Multi-Class Brain Computer Interface based on Pitch, Spatial and Timbre Cues, *PLOS ONE*.
- Ramirez, R. (submitted). First-order Rule Discovery with Ant Colony Optimization, *Applied Soft Computing*.
- Ramirez, R., Maestre, E., Gomez, I. (submitted). Human Brain Activity Prediction for Rhythm Perception Tasks: an fMRI study. *NeuroImage*.
- Ramirez, R., Maestre, E., Serra, X. (2012). A Rule-Based Evolutionary Approach to Music Performance Modeling, *IEEE Transactions on Evolutionary Computation*, 16(1): 96-107.
- Marinescu. M., Ramirez, R. (2012). Learning singer-specific performance rules, *International Journal of Modeling and Optimization*, 2(2): 97-102
- Ramirez, R., Maestre, E., Serra, X. (2011). Automatic Performer Identification in Celtic Violin Audio Recordings, *Journal of New Music Research*, 40(2): 165–174.
- Ramirez, R., Maestre, E., Serra, X. (2010). Automatic performer identification in commercial monophonic Jazz performances, *Pattern Recognition Letters*, 31: 1514-1523.
- Ramirez, R., Perez, A., Kersten, S., Rizo, D., Román, P., Iñesta, J.M. (2010). Modeling Violin Performances Using Inductive Logic Programming, *Intelligent Data Analysis*, 14(5): 573-586.
- Maestre, E., Ramirez, R. (2010). An approach to predicting bowing control parameter contours in violin performance, *Intelligent Data Analysis*, 14(5): 587-599.
- Perez-Sancho, C., Kersten, S., Ramirez, R., Iñesta, J. M., Ponce de León, P. (2010). Genre classification of music by tonal harmony, *Intelligent Data Analysis*, 14(5): 533-546.
- Maestre, E., Ramirez, R., Serra, X. (2009). Expressive Concatenative Synthesis by (re)Using Samples from Real Performance Recordings, *Computer Music Journal*, Vol. 33(4): 23-42
- Ramirez, R., Hazan, A., Serra, X. (2008). A Genetic Rule-based Expressive Performance Model for Jazz Saxophone, *Computer Music Journal*, 32(1): 38-50.
- Ramirez, R., Maestre, E., Pertusa, A., Gomez, E., Serra, X. (2007). Performance-based Interpreter Identification in Saxophone Audio Recordings. *IEEE Transactions on Integrated Circuits and Systems for Video Technology*, 17(3): 356-364.
- Ramirez, R., Hazan, A. (2006). A Tool for Generating and Explaining Expressive Music Performances of Monophonic Jazz Melodies, *International Journal on Artificial Intelligence Tools*, 15(4): 673-691
- Ramirez, R., Hazan, A., Gomez, E., Maestre, E., Serra, X. (2005). Discovering Expressive Transformation Rules from Saxophone Jazz Performances, *Journal of New Music Research*, 34(4): 319-330

LECTURE NOTES IN COMPUTER SCIENCE

- Ramirez, R., Vamvakousis, Z. (2012). Detecting Emotion from EEG Signals using the Emotiv EPOC Device, *Lecture Notes in Computer Science 7670*, Springer.
- Ramirez, R., Puiggros, M. (2007). A Machine Learning Approach to Detecting Instantaneous Cognitive States from fMRI Data, *Lecture Notes in Computer Science 4426*, Springer.
- Ramirez, R., Puiggros, M. (2007). A Genetic Programming Approach to Feature Selection and Classification of Instantaneous Cognitive States, *European Workshop on Evolutionary Computation in Image Analysis and Signal Processing, Spain*, *Lecture Notes in Computer Science 4448*, Springer.
- Ramirez, R., Puiggros, M., Gomez, E. (2006). Modeling Expressive Music Performance in Bassoon Audio, *Lecture Notes in Control and Information Sciences*, 345, pp. 951-958
- Hazan, A., Ramirez, R. (2006). Modeling Expressive Performance: a Regression Tree Approach Based on Strongly Typed Genetic Programming, *Lecture Notes in Computer Science*, 3907, pp. 676-687
- Ramirez, R., Hazan, A., Maestre, E. (2005). Understanding Expressive Music Performance Using

- Genetic Algorithms, Lecture Notes in Computer Science, 3449, pp. 508-516
- Ramirez, R., Santosa, A. (2004). Constraint-based Synchronization and Verification of Distributed Java Programs, Lecture Notes in Computer Science, 3132
- Ramirez, R. (2003). Inducing Musical Rules with ILP, Lecture Notes in Computer Science, 2916
- Ramirez, R., Santosa, A. (2001). Event Logic Programming, Lecture Notes in Computer Science, 2127, pp. 314-318
- Ramirez, R., Santosa, A. (2000). Implementing declarative concurrency in Java, Lecture Notes in Computer Science, 1900, pp. 700-708
- Ramirez, R. (1998). Representing and executing real-time systems, Lecture Notes in Computer Science, 1470, pp. 279-287
- Ramirez, R. (1996). Concurrent Object-Oriented Programming in Tempo++, Lecture Notes in Computer Science, 1179, pp. 244-253

BOOK CHAPTERS

- Ramirez, A. and Ramirez, R. (2014 in press). A Mathematical Analysis of Brick Vaults and Domes, In: Architecture and Mathematics from Antiquity to the Future, Basel: Birkhauser, Springer.
- Ramirez, R. (2013). Modelling, Analysing, Identifying and Synthesizing Expressive Popular Music Performances, In: Guide to Computing for Expressive Music Performance, pp 123-144, Springer, ISBN: 978-1-4471-4122-8
- Ramirez, R., Hazan, A., Maestre, E., Serra, X. (2008). Evolutionary Expressive Music Performance Modeling, In: The Art of Evolution, pp. 123-144, Springer, ISBN 978-3-540-72876-4.
- Ramirez, R. (2007). Identifying Famous Interpreters from Their Playing Style, In: Intelligent Music Information Systems: Tools and Methodologies, pp. 221.238, IGI Global, ISBN 1-59904-663-6.
- Ramirez, R., Hazan, A., Maestre, E., Serra, X. (2006). A Data Mining Approach to Expressive Music Performance Modeling, In: Multimedia Data Mining, pp. 379-399, Springer, ISBN 1-84628-436-8.

INTERNATIONAL CONFERENCE PEER-REVIEWED PAPERS

1. Ramirez, R., Giraldo, S., Vamvakousis, Z. (2013), EEG-Based Emotion Detection in Music Listening, In Proceedings of the Fifth International Brain-Computer Interface Meeting 2013. Graz University of Technology Publishing House
2. Ramirez, R. and Vamvakousis, Z. (2013). Towards a Low Cost Mu-Rhythm Based BCI. In Proceedings of the Fifth International Brain-Computer Interface Meeting 2013. Graz University of Technology Publishing House, California, USA
3. Giraldo, S., Ramirez, R. (2013), Brain-Activity-Driven Real-Time Music Emotive Control, In Proceedings of the Fifth International Brain-Computer Interface Meeting 2013. Graz University of Technology Publishing House, California, USA
4. Ramirez, R., Giraldo, S., Vamvakousis, Z. (2013) EEG-Based Emotion Detection In Live-Music Listening, In proc. of International Conference on Music & Emotion (ICME3). Jyväskylä, Finland.
5. Ramirez, R. and Vamvakousis, Z. (2013). EEG-Based Emotion Recognition To Enhance Gaze-Controlled Music Performance. In proc. of International Conference on Music & Emotion (ICME3). Jyväskylä, Finland.
6. Giraldo, S., Ramirez, R., (2013) Brain-Activity-Driven Real-Time Music Emotive Control. In proc. of International Conference on Music & Emotion (ICME3). Jyväskylä, Finland.
7. Ramirez, R. and Vamvakousis, Z. (2012). Detecting Emotion from EEG Signals Using the Emotive Epc Device. In Zanzotto, F., Tsumoto, S., Taatgen, N., and Yao, Y., editors, *Brain Informatics*, pages 175–184, Springer, Berlin Heidelberg
8. Gómez, I., Ramirez, R. (2011). A Data Sonification Approach to Cognitive State Identification, International Conference on Auditory Display, Budapest, Hungary.
9. Vamvakousis, Z., Ramirez, R. (2011). The EyeHarp: A Gaze-based Musical Instrument, Sound and Music Computing Conference, Padova, Italy.
10. Neocleous, A., Ramirez, R., Perez, A., Maestre, E. (2010). Modeling Emotions in Violin Audio Recordings, ACM Multimedia Workshop on Machine Learning and Music, Florence, Italy.
11. Maestre, E., Ramirez, R. (2010). International Computer Music Conference, New York, USA.
12. Anglade, A., Ramirez, R., Dixon, S. (2009). Genre Classification Using Harmony Rules Induced From Automatic Chord Transcriptions, International Society for Music Information Retrieval Conference, Japan.
13. Ramirez, R., Maestre, E. (2009). A Framework for Performer Identification in Audio Recordings, International Workshop on Machine Learning and Music - European Conference on Machine Learning, Bled, Slovenia.

14. Marinescu, M.C., Ramirez, R. (2009). Modeling timing expressiveness in singing voice performances, International Workshop on Machine Learning and Music- European Conference on Machine Learning, Bled, Slovenia.
15. Anglade, A., Ramirez, R., Dixon, S. (2009). First-Order Logic Classification Models of Musical Genres Based on Harmony, Sound and Music Computing Conference, Porto, Portugal.
16. Ramirez, R., Perez, A., Kersten, S., Maestre, E. (2008). Performer Identification in Celtic Violin Recordings, International Society of Music Information Retrieval Conference, Philadelphia, USA.
17. Perez, A., Maestre, E., Ramirez, R., Kersten, S. (2008). Expressive Irish Fiddle Performance Model Informed with Bowing, International Computer Music Conference, Belfast, UK.
18. Perez, A., Ramirez, R., Kersten, S. (2008). Modeling Moods in Violin Performances, Sound and Music Conference, Berlin, Germany.
19. Kersten, S., Maestre, E., Ramirez, R. (2008). Concatenative Synthesis of Expressive Saxophone Performance, Sound and Music Conference, Berlin, Germany.
20. Marinescu, M.C., Ramirez, R. (2008). Expressive Performance in the Human Tenor Voice, Sound and Music Conference, Berlin, Germany.
21. Ramirez, R. (2008). An fMRI Study on Attentive Music Listening. The Neurosciences and Music.
22. Ramirez, R., Perez, A., Maestre, E.:K., Rizo, D., Roman, P., Iñesta, J.M. (2008). Modeling Celtic Violin Expressive Performance . International Workshop on Machine Learning and Music, International Conference on Machine Learning, Helsinki, Finland.
23. Ponce León, P., Rizo, D., Ramirez, R. (2008). Melody Characterization by a Fuzzy Rule System. International Workshop on Machine Learning and Music, International Conference on Machine Learning, Helsinki, Finland.
24. Ramirez, R., Puiggros, M. (2007). An Evolutionary Computation Approach to Cognitive States Classification, IEEE Congress on Evolutionary Computing, IEEE Press, Singapore, 2007
25. Ramirez, R., Puiggros, M. (2007). Automatic Classification of Instantaneous Auditory Cognitive States, Conference of the Society for Music Perception and Cognition, Montreal, 2007.
26. Ramirez, R., Santosa, A. (2007). A Framework for Separation of Concerns in Concurrent Programming, IEEE International Computer Software and Applications Conference, Beijing.
27. Ramirez, R. (2007). Automatically Detecting Cognitive States: a Speech and Music Case Study, International Conference on Language and Music as Cognitive Systems, Cambridge, UK.
28. Ramirez, R., Pertusa, A., Maestre, E. (2007). Identifying Saxophonists from Their Playing Styles, 30th AES Conference, Finland.
29. Ramirez, R. et al. (2007). A Genetic Rule-based Expressive Performance Model for Jazz Saxophone, IJCAI International Workshop on Artificial Intelligence and Music, India.
30. Ramirez, R. (2006). A Logic-based Language for Modeling and Verifying Musical Processes, Proceedings of International Computer Music Conference; New Orleans, ICMA Press.
31. Maestre, E. Hazan, A. Ramirez, R. (2006) Using concatenative synthesis for expressive performance in jazz saxophone, Proceedings of International Computer Music Conference; New Orleans, ICMA Press.
32. Hazan, A. Grachten, M. Ramirez, R. (2006) Evolving performance models by performance similarity: beyond note-to-note transformations, Proceedings of the Intl. Conference on Music Information Retrieval, Canada.
33. Ramirez, R., Puiggros, M. (2006). Training Classifiers to Detect Instantaneous Musical Cognitive States, International Conference on Music Perception and Cognition, Italy,
34. Hazan, A. Ramirez, R. (2006). Modeling expressive performance using consistent evolutionary regression trees. Proceedings of ECAI Workshop on Evolutionary Computation.
35. Ramirez, R. et al. (2006). A Sequential Covering Evolutionary Algorithm for Expressive Music Performance, Proceedings of The Conference on Innovative Applications of Artificial Intelligence, Boston, AAAI Press.
36. Puiggros, M. Gómez, E. Ramirez, R. Serra, X. Bresin, R. (2006). '*Automatic characterization of ornamentation* from bassoon recordings for expressive synthesis', Proceedings of 9th International Conference on Music Perception and Cognition; Bologna, Italy
37. Ramirez, R. et al. (2005). Intra-note Features Prediction Model for Jazz Saxophone Performance. Proceedings of International Computer Music Conference, Barcelona, ICMA Press.
38. Ramirez, R., Hazan, A. (2005). A Learning Scheme for Generating Expressive Music Performances of Jazz Standards, Proceedings International Joint Conference on Artificial Intelligence, Edinburgh.
39. Ramirez, R., Santosa, A. (2005). Formal Verification of Concurrent and Distributed Constraint-based Java Programs, Proceedings IEEE International Conference on the Engineering of Complex Computer Systems, IEEE Press, Shanghai.
40. Ramirez, R., Hazan, A. (2005). An Approach to Expressive Music Performance Modeling, Proceedings of 118th Audio Engineering Society Convention, Barcelona.
41. Ramirez, R., Hazan, A. (2005). Modeling Expressive Music Performance in Jazz, Proceedings International Florida Artificial Intelligence Research Society Conference, AAAI Press, Clearwater, Florida.
42. Ramirez, R. (2004). Inductive Logic Programming and Music, Proceedings International Computer Music Conference, Miami, ICMA Press.
43. Ramirez, R., Hazan, A. (2004). Learning Expressive Performance Rules in Jazz, Proceedings International Computer Music Conference, Miami, ICMA Press.

44. Ramirez, R. et al. (2004). Understanding Expressive Transformations in Saxophone Jazz Performances Using Inductive Machine Learning`, Proceedings Sound and Music Computing International Conference, Paris.
45. Ramirez, R., Hazan, A. (2004). Rule induction for expressive music performance modeling, ECML Workshop Advances in Inductive Rule Learning, Pisa, Italy.
46. Ramirez, R. et al. (2004). The Implementation of a Constraint-based Distributed Java Programming Framework, Proceedings International Conference on Parallel and Distributed Computing Systems, ISCA Press.
47. Ramirez, R. et al. (2004). Constraint-based Concurrent and Distributed programming in Java`, Proceedings International Symposium on Distributed Computing and Applications to Business, Engineering and Science, Wuhan University Press, Wuhan, China.
48. Ramirez, R. et al. (2004). Poster Presentation: Constraint-based Synchronization and Verification of Distributed Java Programs`, Proceedings International Conference on Logic Programming, Springer, Saint Malo.
49. Ramirez, R. et al. (2004). A Machine Learning Approach to Expressive Performance in Jazz Standards, Proceedings International Workshop on Multimedia Data Mining (in conjunction with ACM SIGKDD International Conference on Knowledge Discovery & Data Mining).
50. Ramirez, R. et al. (2004). Constraint-based Synchronization and Verification of Distributed Java Programs, Proceedings ACM SIGACT-SIGOPS Symposium on Principles of Distributed Computing, ACM Press.
51. Ramirez, R. et al. (2004). Model Checking Constraint-based Concurrent Java Programs, Proceedings International Workshop on Constructive Methods for Parallel Programming, Stirling, UK.
52. Ramirez, R. (2004). Concurrent and Distributed Programming Using Constraint Logic Programs, Proceedings ACM Symposium on Applied Computing, ACM Press, Canada.
53. Ramirez, R. (2003). Inductive Logic Programming for Learning Musical Rules, Proceedings International Conference on Applied Artificial Intelligence.
54. Ramirez, R. (2003). Inducing Musical Rules with ILP, Proceedings International Conference on Logic Programming, Springer, Bombay, India.
55. Ramirez, R. (2003). Extracting Harmonization Rules with Inductive Logic Programming, Proceedings International Conference on Inductive Logic Programming.
56. Ramirez, R. (2003). Learning Sets of Musical Rules, Proceedings International Computer Music Conference, ICMA Press, Singapore.
57. Ramirez, R. et al. (2003). A Methodology for Concurrent and Distributed Java Application, Proceedings International Parallel and Distributed Processing Symposium, Workshop on Java for Parallel and Distributed Computing, IEEE Computer Society Press, Canada.
58. Ramirez, R. et al. (2003). An Aspect-Oriented Framework for Concurrent Applications, Workshop on Aspect-Oriented Software Development, TR University of Essen, Essen.
59. Ramirez, R. et al. (2002). A Methodology for Reliable Concurrent Programming, Thirteenth International Symposium on Software Reliability Engineering, Chillarege Press.
60. Ramirez, R. (2002). A constraint-based methodology for coordination in multi-agent systems, Iberoamerican Conference on Artificial Intelligence, Workshop on Multi-Agent Systems, Spain.
61. Ramirez, R. et al. (2002). Distributed Programming Using Constraint Logic Programs, Inter. Conference on Parallel and Distributed Processing Techniques and Applications, CSREA Press.
62. Ramirez, R. et al. (2001). Event Logic Programming, Sixth International Conference on Parallel Computing Technologies, Springer, Russia.
63. Ramirez, R. et al. (2000). Concurrent programming made easy, Sixth IEEE International Conference on Engineering of Complex Computer Systems, IEEE Press, Japan.
64. Ramirez, R. et al. (2000). Implementing declarative concurrency in Java, Proceedings European Conference on Parallel Computing, Springer-Verlag, München.
65. Ramirez, R. et al. (2000). Declarative concurrency in Java, Proceedings International Workshop on High-Level Parallel Programming Models and Supportive Environments, Springer, Mexico.
66. Ramirez, R. (1999). A coordination model for real-time programming, Proceedings Australasian Conference on Parallel and Real-Time Systems, Melbourne, Springer-Verlag.
67. Ramirez, R. and Peralta, J. (1998). A constraint-based melody harmonizer, Proceedings Workshop on Constraints for Artistic Applications, Brighton.
68. Ramirez, R. (1998). Representing and executing real-time systems, Proceedings European Conference on Parallel Computing, Springer-Verlag, UK.
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