

A selection of publications (Leo Motus)

2003

Journals and books:

1. B. Selic and L. Motus (2003) "Modeling of Real-time Software with UML", *IEEE Control Systems Magazine*, vol.23, no.3, 31-42
2. L. Motus (2003) "Modeling Metric Time", in B.Selic, L.Lavagno, G.Martin (Eds), *UML for Real: Design of Embedded Real-time Systems*, Kluwer Academic Publ., Norwell, 205—220

Complete texts in conference proceedings:

3. L. Motus and M. Meriste (2003) "Time modelling for requirements and specification analysis", in Colnaric, Adamski and Wegrzyn (Eds) *Real-time Programming 2003*, Elsevier Science, 9-14
4. L. Motus, M. Meriste, T. Kelder, J. Helekivi, V. Kimlaychuk (2003) "A test-bed for time-sensitive agents – some involved problems", 9th IEEE International Conference on Emerging Technologies and Factory Automation, Portugal, vol. II, 645-651
5. M. Meriste, T. Kelder, J. Helekivi, L. Motus (2003) "Domain-Specific Language Agents", Proc. 8th Symposium on Programming Languages and Software Tools, 82-90

2002

Complete texts in conference proceedings

1. [L.Motus, M.Meriste, T.Kelder, J.Helekivi](#) "An architecture for multi-agent system test-bed", Proc. IFAC Congress, Barcelona, July 2002
2. [M.Meriste, L.Motus](#), "On models for time-sensitive interacting computing", The 2002 International Conference on Computational Science, Amsterdam, The Netherlands, 2002, Springer, LNCS 2329, 156 – 165,
3. [Leo Motus and Merik Meriste](#) "Some remarks on time modelling in interactive computing systems", presented at International Conference on Advances in Infrastructure for e-Business, e-Education, e-Science, e-Medicine on the Internet, August 2002, CD, 7 pp

2001

Journals and books

1. T.Naks and L.Motus "Handling timing in a time-critical reasoning system - a case study", *Annual Reviews in Control*, vol.25 (2001), pp 157-168

Complete text in conference proceedings

2. [L.Motus and T.Naks](#) "Time models as used in Q-model and suggested for RT UML", Proc. 5th World Multi-Conference on Systemics, Cybernetics and Informatics, vol. XI, 467-472
3. [L.Motus and M.Meriste](#) "Towards Time-awareness of Self-organizing Systems", Proc. International Conference on Advances in Infrastructure for

Electronic Business, Science and Education on the Internet, L*Aquila, CD, 6 pages

4. L.Motus and M.Meriste "Towards Self-organizing Time-sensitive Control System's Software", Proc. IFAC Conference on New Technologies in Computer Control, November, Hong Kong, 236-241

2000

Complete texts in conference proceedings

1. T.Naks and L.Motus "Real-time behaviour verification, animation and monitoring starting from DCCS specification", Proc. IFAC Symposium on Distributed Computer Control Systems, Elsevier Science Ltd, 85-92

1999

Complete texts in conference proceedings

2. T.Naks and L.Motus " Handling Timing in a Time-critical Reasoning System – a case study", Proc. IFAC Symposium on Artificial Intelligence in Real-time Control, Elsevier Science Ltd, 1-11
3. L.Motus "Teaching Software-intensive embedded systems at Tallinn Technical University", Proc. 3rd IEEE Workshop on Real-time Systems in Education, IEEE Computer Society Press, 30-35.
4. L.Motus "Design of artificial Intelligence based Time-critical Systems – Integration Difficulties", Lecture Notes Nordic-Baltic Summer School on Intelligent Design, Intelligent Manufacturing And Intelligent Management, Kaunas Univ.of Technology Press, 25- 38.

1998

Journals and books

1. M.G.Rodd, K.Dimyati, L.Motus "The design and analysis of low-cost real-time fieldbus systems" Control Engineering Practice, vol. 6, no.1, 83-91
2. L. Mötus, T. Näks "Formal timing analysis of OMT designs using LIMITS", Computer Systems Science and Engineering vol.13, no.3, 161- 170

Complete texts in conference proceedings

3. T. Naks, J.D.Holt, L.Motus "Timing Analysis in Object-oriented System Life-cycles" in Proceedings of IEEE International Symposium on Object-Oriented Real-time Distributed Computing, April 20-22, 1998, Kyoto, Japan, IEEE Computer Society Press, 327-334

Abstracts and conference presentations

4. L.Motus "Teaching software-intensive embedded systems at Tallinn Technical University", 3rd IEEE Real-time Systems Education Workshop, Poznan, Poland, November 21
5. L.Motus "Design of Artificial Intelligence based Time-Critical Systems – Integration Difficulties" Nordic - Baltic Summer School on Intelligent Design, Intelligent Manufacturing, and Intelligent Management, June 5-13, 1998
6. L.Motus "Potential pitfalls in time-critical artificial intelligence applications", Seminar of the evaluation panel at Materials Process Design Wright Laboratory, January 1998, Dayton, Ohio, USA

1997

Complete texts in conference proceedings

1. M.G. Rodd, K. Dimyati, L. Motus "The design and analysis of low cost real-time fieldbus systems", a plenary paper, IFAC Proc. Workshop on Distributed Computer Control Systems, Elsevier Science, 8-17
2. M.D. van der Laan, W.A. Halang, L. Motus "Wavelet-based measurement and processing of gas-cromatographic data", Proc. XIV IMEKO World Congress, June 1997, Tampere, Finland, vol.V, 22- 27
3. L.Motus and T.Naks " Formal timing Analysis of OMT designs using LIMITS", Proc. IEEE 3rd International Workshop on Object-Oriented Real-time Dependable Systems, IEEE Computer Society Press, 137-144

1996

Journals and books

1. L.Motus "Specification of Safety and Reliability Requirements for Control Systems", Journal High Integrity Systems, vol. 1., no. 6, 513-522

Complete texts in conference proceedings

2. L.Motus, T. Näks "A method and a tool for formal timing analysis of OMT design", Proc. IFAC/IFIP 21st Workshop on Real-time Programming, Gramado, Brazil, 24-35

Abstracts and conference presentations

3. L.Motus "The LIMITS of Time", 90 min, IEE Computer and Control Division, Divisional lecture, London, May 1996
4. L.Motus " Nature of Time in Real-time Computing Systems", 45 min, IFAC World Congress, Pre-congress advanced Workshop on Techniques for Time-critical Software Design, San Francisco, July 1996
5. L.Motus "The Q-methodology, its use and underlying principles", 60 min, IFAC World Congress, Pre-congress advanced Workshop on Techniques for Time-critical Software Design, San Francisco, July 1996
6. L.Motus " Artificial Intelligence in Real-time systems" Nordic-Baltic summer school on Artificial Intelligence, Tallinn, June 1996

1995

Journals and books.

1. L.Mötus "Timing problems and their handling at system integration" S.G.Tsafestas and H.B.Verbruggen (eds) Artificial Intelligence in Industrial Decision Making, Control and Automation; Dordrecht, Kluwer Publ., 1995, pp.67-88

Complete texts in conference proceedings

2. L.Mötus, M.G.Rodd, C.Neill "The impact of software timing correctness on systems safety" Preprints IFAC 2nd Workshop on Safety and Reliability in Emerging Control Technologies, 1-3 November, 1995, Daytona Beach, Florida, 193 - 201
3. L.Mötus, R.Kinksaar, T.Näks, M.Pall "Enhancing Object Modelling Technique with Timing Analysis Capabilities", Proc. IEEE 1st International Conference on

Engineering Complex Computer Systems, IEEE Computer Society Press, 5-10 November 1995, Ft.Lauderdale, Florida, 298-301

Abstracts and conference presentations

4. L.Mõtus "Time in industrial Information Technology" 3rd Baltic Summer School on Information Technology and Systems Engineering, 3-5 August, 1995, Klaipeda
5. L.Mõtus "Specification of Safety and Reliability Requirements for Control Systems" Dagstuhl Seminar 9509, High Integrity Programmable Electronic Systems, February 27 - March 03, 1995

1994

Journals and books

1. L.Motus and M.G.Rodd "Timing Analysis of Real-time Software", Elsevier Science/Pergamon, 1994, 212pp

Complete texts in conference proceedings

2. T.Kaldma, L.Motus, R.Paluoja, J.Tekko, T.Tommingas "Animation in CONRAD: Informal Analysis of Timing Properties". 6th EUROMICRO Workshop on Real-Time Systems, Sweden, 1994, 220-225
3. T.Kaldma, L.Motus, R.Paluoja, J.Tekko, T.Tommingas "Specification and Formal Analysis of Real-Time Software in CONRAD". 19th IFAC/IFIP Workshop on Real-Time Programming, Germany, 1994, 67-72
4. L.Mõtus "Trends in Artificial Intelligence in Real-time Control". IFAC/IFIP/IMACS 2nd Symposium on Artificial Intelligence in Real-time Control, Spain, 1994, 35-45.
5. L.Mõtus "The Impact of Safety and Reliability Requirements on the Specification of Control Systems". IFAC Workshop on Safety, Reliability and Applications of Emerging Intelligent Control Tehnologies, Hongkong, 1994, 73-81.

1993

Journals and books

1. L.Mõtus "Time concepts in Real-time Software" Control Engineering Practice, 1993, vol.1, no.1, 21-33
2. L.Mõtus "Time concepts in software" in Concise Encyclopaedia of Software Engineering, Pergamon Press, 1993, 356-359
3. L.Mõtus "Concurrency" in Concise Encyclopaedia of Software Engineering, Pergamon Press, 1993, 73-74

Complete texts in conference proceedings

4. L.Mõtus "Analytical study of quantitative timing properties of software" Proc. 5th Euromicro Workshop on Real-time Systems, IEEE Computer Society press, 1993, 218-223

Etc, etc.

My first publication appeared in 1969 (IFAC World Congress in Warsaw)