The Field of Parameterized Complexity

Monographs:

1. R. G. Downey, M. R. Fellows: *Parameterized Complexity* Springer-Verlag, 1999.
2. J. Flum and M. Grohe. *Parameterized Complexity Theory*. Springer-Verlag, 2006.
3. R. Niedermeier. *Invitation to Fixed-Parameter Algorithms*. Oxford University Press, 2006.
4. M. R. Fellows and F. A. Rosamond. *Parameterized Complexity Extremal Theory*. Cambridge University Press. In progress.
5. Fernau, Henning. *Parameterized Algorithmics: A Graph-Theoretic Approach*. Habilitationsschrift, Universitat Tubingen, 2005. Book in progress.

Special Issues:

- *The Computer Journal.* Vol 1 and Vol 3, 2008. Special Eds. Michael Fellows, Rod Downey and Michael Langston.
- *ACM SIGACT News.* 38(1):31–45, 2007. "Invitation to data reduction and problem kernelization." Guo, Jiong and Rolf Niedermeier.
- *Theoretical Computer Science*, 351 (3), p.295-295, Feb 2006. R. Downey, M. Langston and R. Niedermeier guest editors.
- *Bulletin of the ESA*. Vol 86, June 2005. Column on Algorithmics. M. Serna, D. Thilikos: Parameterized Complexity for Graph Layout Problems.
- *Journal of Computer and System Sciences.* Volume 67, Issue 4. Dec 2003. Special issue on Parameterized Computation and Complexity. J. Chen and M. R. Fellows guest editors.

International Conference Series: IWPEC
International Workshop on Parameterized and Exact Computation
2000 Chennai, India
2002 Kanpur, India (joint with FSTTCS)
2004 Bergen (joint with ESA)
2006 ETH Zurich, Switzerland (joint with ESA)
2008 Victoria, BC Canada (co-located with STOC)
2009 Stockholm (joint with ESA)

Dagstuhl Workshops

1. 2009 Seminar 09171, 19.04.09 - 24.04.09. *Adaptive, Output Sensitive, Online and Parameterized Algorithms.* Jérémy Barbay (DCC - Universidad de Chile, CL), Rolf Klein (Universität Bonn, DE), Alejandro Lopez-Ortiz (University of Waterloo, CA), Rolf Niedermeier (Universität Jena, DE).
2. 2009 Seminar 09511, 13.12.09 - 17.12.09. Parameterized complexity and approximation algorithms. Erik Demaine (MIT - Cambridge, US), MohammadTaghi HajiAghayi (AT&T Research US), Daniel Marx (Budapest Univ. of Technology & Economics, HU).
3. 2007 Seminar 07281, 08.07.07 - 13.07.07. *Structure Theory and FPT Algorithmics for Graphs, Digraphs and Hypergraphs*. Erik Demaine (MIT - Cambridge, US), Gregory Z. Gutin (RHUL - London, GB), Daniel Marx (Budapest Univ. of Technology & Economics, HU), Ulrike Stege (University of Victoria, CA).
4. 2005 Seminar 05301, 24.07.05 - 29.07.05. *Exact Algorithms and Fixed-Parameter Tractability*. R. Downey (Univ. of Wellington, NZ), M. Grohe (HU Berlin, DE), M. Hallett (McGill Univ., CA), G. Woeginger (Univ. of Twente, NL)
5. 2003 Seminar 03311, 27.07.03 - 01.08.03. *Fixed Parameter Algorithms.* M. Fellows (Univ. of Newcastle, AUS), M. Hallett (McGill Univ. of Montreal, CDN), R. Niedermeier (Univ. Tübingen, D), N. Nishimura (Univ. of Waterloo, CDN)

6. 2001 Seminar 01311, 29.07.01 - 03.08.01. *Parameterized Complexity.* R. Downey (Wellington), M. Fellows (Victoria), R. Niedermeier (Tübingen), P. Rossmanith (TU München)

Summer Schools
-[FOM] 6th International Summer School in Formal Languages and Applications. Joerg Flum (Freiburg, Germany), Parameterized Complexity (July/August 2008).
-Shanghai Summer School on Parameterized Complexity. June 08, prior to AAIM08.
-Mini-Symposium: Intractability and Cognitive Modelling: Part 2 - Formalization of Analogical Structure Mapping (with M. Muller and I. van Rooij), Nijmegen Institute for Cognition and Information (NICI), Radboud University Nijmegen, Nijmegen, the Netherlands, June 5, 2008.
-Approximating Solution Structure (with M. Hamilton, M. Muller, and I. van Rooij) Department of Computer Science, Memorial University of Newfoundland, St. John's, NL, February 14, 2008.

Newsletter *FPT News* (Edited by Frances Rosamond)

Wiki http://fpt.wikidot.com/fpt

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France CIRM Luminy. Christophe Paul. Paris. Christine Bazgan
Germany Aachen-Rosmanith, Berlin-Grohe, Freiburg-Flum. Jena- Niedermeier, Bocker, Sebastian. Karlsruhe-Seese. Rostok Saarbrucken Trier. Till Tantau, Leubec. Christian Knauer-Berlin. Kneis, Joachim. Damaschke, Peter.
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