

Intelligent system

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- M. Kruusmaa, “Global navigation in dynamic environments using case-based reasoning”, *Autonomous Robots* **14**, pp. 71-91 (2003)
- K. Nilsson & J. Bigun. “Localization of corresponding points in fingerprints by complex filtering”. *Pattern Recognition Letters*, **24**:2135-2144 (2003)
- M. Bodén & A. Blair “Learning the dynamics of embedded clauses” *Applied Intelligence: Special issue on natural language and machine learning* **19**(1/2), pp. 51-63 (2003)
- U. Holmberg & M. Hellring. “A simple virtual sensor for combustion timing”, *ASME Journal of Dynamic Systems, Measurement, and Control* **125** (2003)
- S. Valentinotti, B. Srinivasan, U. Holmberg, D. Bonvin, C. Cannizzaro, M. Rhiel and U. von Stockar. “Optimal operation of fed-batch fermentations via adaptive control of overflow metabolite”. *Control Engineering Practice* **11**(6):665-674 (2003)
- A. Verikas, K. Malmqvist, L. Bergman & P. Engstrand, “Colour speck counter for assessing the dirt level in secondary fibre pulps”, *Journal of Pulp and Paper Science*, **29**(7), pp 220-224 (2003)
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- B. Åstrand & A.J. Baerveldt, “A Mobile Robot for Mechanical Weed Control”, *International Sugar Journal*, **105**, pp. 89-95 (2003)
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- T. Rögnvaldsson & L. You “Why Neural Networks Should Not Be Used for HIV-1 Protease Cleavage Site Prediction”. *Bioinformatics* **20**, 1702-1709 (2004).
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4.2 Konferenser med omfattande reviewer-förfarande

- A. Franke, P. Einewall, B. Johansson, N. Wickström, R. Reinmann & A. Larsson, "The effect of incylinder

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 - J. Bigun, H. Fronthaler & K. Kollreider. “Assuring liveness in biometric identity authentication by real-time face tracking”. In *CIHSPS2004 - IEEE International Conference on Computational Intelligence for Homeland Security and Personal Safety, Venice, Italy, 21-22 July*, pages 104-112. IEEE Catalog No. 04EX815, ISBN 0-7803-8381-8 (2004)
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 - S. Byttner, U. Holmberg & N. Wickström, “An Ion Current Algorithm for Fast Determination of High Combustion Variability”, SAE technical paper 2004-01-0522, SAE world congress 2004, March, Detroit (2004).
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 - K. Nilsson & J. Bigun. “Registration of fingerprints by complex filtering and by 1d projections of orientation images”. In *Audio and Video based Person Authentication - AVBPA*, **volume LNCS** (in print). Springer (2005)
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4.3 Böcker, bokkapitel & “editorials”

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4.4 Avhandlingar

- S. Byttner, *Algorithms for ion current based sensing of combustion variability and pressure peak*

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- N. Wickström, *Virtual Sensing of Combustion Quality in SI Engines using the Ion Current*, PhD thesis, Chalmers University of Technology 2004.
- L. Bergman, *Using Multicoloured Halftone Screens for Offset Print Quality Monitoring*, Licentiate Thesis, Liu-TEK-LIC-2005:02, Linköping University, 2005.
- L. Premaratne, *Recognition of printed Sinhala Characters by Direction Fiels*, PhD Thesis, Chalmers University of Technology 2005.
- K. Nilsson, *Symmetry Filters Applied to Fingerprints*, PhD thesis Chalmers University of Technology 2005.
- B. Åstrand, *Vision Based Perception for Mechatronic Weed Control*, PhD thesis Chalmers University of Technology 2005.
- M. Persson, *Segmentation of 2D electrophoresis gel images for protein expression analysis*, Licentiate thesis, Chalmers University of Technology 2005. (Lic.. seminarium 7 oktober 2005).
- S. Byttner, *Real-time control of an SI-engine using ion current based algorithms*, PhD thesis, Chalmers University of Technology 2005. (disputation 16 december 2005)

4.5 Konferenser/workshops med mindre omfattande reviewing

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- K. Hedenberg & A.J.Baerveldt. "Stereo-Vision Based Collision Avoidance", *Proc. of Mechatronics 2004-The 9th Mechatronics Forum International Conference*, Ankara, Turkey, August 2004.
- L. Premaratne, Y. Assabie & J. Bigun. "Recognition of modification-based scripts using direction tensors". In *Proc. 4th Indian Conference on Computer Vision, Graphics and Image Processing*, ISBN-81-7764-707-5, pp. 587-592. Indian Statistical Institute, 203 B.T Road, Kolkata 700 108, India, Dec. 16-18 (2004)

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4.6 Andra fora (t.ex. populärvetenskapliga arbeten)

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