

Samenvatting IOP-project Lichtgewicht positionering

Publicaties:

Resultaten Lichtgewicht positioneren, IOP

<http://precisieportaal.nl/precisiematrix/details.aspx?id=833>

Proefschriften

J. Makarovic, *Lightweight positioning: Design and optimization of an actuator with two-controlled degrees of freedom*, Technische Universiteit Eindhoven, 2006

<http://alexandria.tue.nl/extra2/200611813.pdf>

M.G.E. Schneiders, *Over-actuated motion control - a modal approach*, Technische Universiteit Eindhoven (verschijnt medio 2007)

A.M. v.d. Wielen, *Lightweight positioning*, Technische Universiteit Eindhoven (verschijnt medio 2007)

Artikelen/conference papers

J. Makarovic, A.J.A. Vandenput, E.A. Lomonova, H. Krijt, S. Stikkelorum, *Simple Method of Linear Induction Motor Redesign*, 2nd IFAC Conference on Mechatronic Systems, Dec. 9-11, 2002 Berkeley, California, USA, pp. 55-60

Compter J.C., E.A. Lomonova and J. Makarovic, *Direct 3D analytical method for performance prediction of linear moving coil actuator with various topologies*, IEE Proceedings - Science, Measurement and Technology, Vol. 150, No. 4, July 2003, pp. 183-191

J. Makarovic, J.C. Compter, E.A. Lomonova, *Wire-bonder multi-objective optimization*, 4th International Symposium on Linear Drives for Industry Applications, September 8-10, 2003 Birmingham, UK, pp. 51-54

J. Makarovic, M.G.E. Schneiders, A.M.van der Wielen, E.A. Lomonova, M.J.G. van de Molengraft, R.M. van Druten, J.C. Compter, M. Steinbuch, P.H.J. Schellekens, *Integrated design of a lightweight positioning system*, International Conference on Motion and Vibration Control, MOVIC'04, St. Louis, USA, August 2004

J. Makarovic, E.A. Lomonova, J.C. Compter, *Constrained design optimization of voice coil actuator for light-weight positioning system*, 8th International Workshop on Optimization and Inverse Problems in Electromagnetism, Grenoble, France, September 2004

J. Makarovic, E.A. Lomonova, J.C. Compter, *Innovative actuator with two controlled degrees of freedom for precision technology applications*, PEDS 2005, Kuala Lumpur, Nov-Dec 2005

M.G.E. Schneiders, J. Makarovic, M.J.G. van de Molengraft, M. Steinbuch, *Design Considerations for Electromechanical Actuation in Precision Motion Systems*, IFAC world congress, Prague, July 2005

M.G.E. Schneiders, M.J.G. van de Molengraft, M. Steinbuch, *Modal Framework for Closed-loop Analysis of Over-actuated Motion System*, IMECE, the 2004 ASME International Mechanical Engineering Congress and RD&D expo (presentation only)

M.G.E. Schneiders, M.J.G. van de Molengraft, M. Steinbuch, *Benefits of over-actuation in motion systems*, in Proceedings of the ACC (2004)

M.G.E. Schneiders, M.J.G. van de Molengraft, M. Steinbuch, *Introduction to an integrated design for motion systems using over-actuation*, in Proceedings of the ECC (2003)

M.B.G. Cloosterman, H.J. Goossens, M. Steinbuch, M.G.E. Schneiders, *Compensation of mode shapes with a piezo electric actuator*, in American Control Conference 2003; Editors: IEEE, Denver, United States, 725-730, (2003)

M.G.E. Schneiders, M.J.G. van de Molengraft, M. Steinbuch, *Evaluation of (unstable) non-causal systems applied to iterative learning control*, in Mechatronics 2002; Editors: J. van Amerongen, Enschede, Netherlands, 10, (2002)

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J. Makarovic, E.A. Lomonova, J.C. Compter, *Electromagnetic actuator with two controlled degrees of freedom*