

## REFERENCES

- [a] M. Eghtesad, D. Neculescu, Experimental Study of the Dynamic Based Feedback Linearization of an Autonomous Wheeled Ground Vehicle, *Robotics and Autonomous Systems*, 47, 2004, pp. 47-63.
- [b] M. Eghtesad, D. Neculescu, Study of the Internal Dynamics of an Autonomous Mobile Robot, *Robotics and Autonomous Systems*, Vol. 54, Issue 4 , 28 April 2006, pp. 342-349.
- [c] B. Kim, D. Neculescu, J. Sasiadek, Autonomous Mobile Robot model Predictive Control , *Int. Journal Control*, Vol. 77, Issue 16, Nov 2004
- [d] Maciek Kepka, Dan Neculescu, Jerzy Sasiadek, Bumsoo Kim. Autonomous Vehicle Formation Control with Kinematics Constrains. 5<sup>th</sup> IEEE INDIN Conf, Vienna, 23-27 July, 2007, pp. 437-442.
- [e] Z. Cheng, D.Neculescu, B. Kim, J.Z. Sasiadek, Model Predictive Control for UAV Formation Flying, 13th IEEE/IFAC Int. Conf. MMAR, paper 0095, Szczecin, 27-30 Aug. 2007.
- [f] D. Neculescu, Swarming of UAVs: Coordinated Target Assignment Using Coupled Trajectory Planning, Technical report , March 2005.
- [g1] D. Neculescu, Z. Cheng, Enhancement of Multi-UAV Collaboration Capability by Autonomy Simulation Through Collision Avoidance and Formation Hold, Technical Report, Apr 2004.
- [g2] Z. Cheng, D. Neculescu, B. Kim and J. Z. Sasiadek, Nonlinear Control for UAV Formation Flying, Proceedings of the IFAC 17th World Congress, Seoul, Korea, July 6-11, 2008, pp 791-796
- [g3] Z. Cheng, D.Neculescu, B. Kim, J.Z. Sasiadek, Model Predictive Control for UAV Formation Flying, 13th IEEE/IFAC Int. Conf. MMAR, paper 0095, Szczecin, 27-30 Aug. 2007.
- [h] M. Kepka, D. Neculescu, J. Sasiadek, B. Kim, Autonomous Vehicle Formation control with Kinematic Constraints, 5<sup>th</sup> IEEE INDIN Conf, Vienna, July, 2007, pp. 437-442.
- [i1] D. Neculescu, Yi-Wu Jiang and B. Kim, Neural Network Based Feedback Linearization Control of an Unmanned Aerial Vehicle, *International Journal of Automation and Computing*, Vol. 1, Jan 2007, pp. 71-79.
- [i2] Y. Jiang, D. Neculescu, J. Sasiadek, Robotic Unmanned Aerial Vehicle Trajectory Tracking Control”, SYROCO 2006 September 6-8, 2006, Bologna.
- [j] R. Jassemi-Zargani, D. Neculescu, Extended Kalman Filter Based Sensor Fusion for Operational Space Control of a Robot Arm, *IEEE Trans. on Instrumentation and Measurement*, Dec. 2002, pp. 1279- 1282
- [k] J. Z. Sasiadek, A. Monjazez and D. Neculescu, Navigation of an Autonomous Mobile Robot using EKF-SLAM and FAST-SLAM, *Proc. IEEE 16<sup>th</sup> Med. Conf. on Control and Automation*, Ajaccio, 25-27 June 2008, pp. 517-522.
- [l] G. L. Mariottini et al , Vision-Based Localization for Leader–Follower Formation Control, *IEEE Trans on Robotics*, Vol. 25, No. 6, Dec. 2009, pp. 1431-1438
- [m] Z. Qu, J. Wang and R. Hull, Cooperative Control of Dynamical Systems with Application to Autonomous Vehicles, *IEEE Trans. on Automatic Control*, Vol. 53, No. 4, May 2008, pp. 894-910.
- [n] P. Yang, R. Freeman, and K. Lynch, Multi-Agent Coordination by Decentralized Estimation and Control, *IEEE Trans. on Automatic Control*, Vol. 53, No. 11, Dec 2008, pp. 2480-2496.
- [o] H. Su, X. W and Z. Lin, Flocking of Multi-Agents with a Virtual Leader, *IEEE Trans. on Automatic Control*, Vol. 54, No. 2, Febr. 2009, pp. 293-307.
- [p] F. Cucker and S. Smale, Emergent Behavior in Flocks, *IEEE Trans. on Automatic Control*, Vol. 52, No. 5, May 2007, pp. 852-862.
- [r] V. Kumar, G. Bekey, A. Sanderson, *Networked Robots*, Ch 7, <http://www.wtec.org/robotics/report/07-Networked.pdf>