



Daniela Rus

Professor of Computer Science,
MIT

Robotics
Modular Robotics
Mobile Computing

	All	Since 2013
Citations	28997	14900
h-index	91	62
i10-index	349	275

TITLE	CITED BY	YEAR
Robust distributed network localization with noisy range measurements D Moore, J Leonard, D Rus, S Teller Proceedings of the 2nd international conference on Embedded networked sensor ...	1142	2004
Global clock synchronization in sensor networks Q Li, D Rus IEEE Transactions on computers 55 (2), 214-226	693	2006
Design, fabrication and control of soft robots D Rus, MT Tolley Nature 521 (7553), 467	684	2015
Online power-aware routing in wireless ad-hoc networks Q Li, J Aslam, D Rus Proceedings of the 7th annual international conference on Mobile computing ...	662	2001
Modular self-reconfigurable robot systems [grand challenges of robotics] M Yim, WM Shen, B Salemi, D Rus, M Moll, H Lipson, E Klavins, ... IEEE Robotics & Automation Magazine 14 (1), 43-52	660	2007
Data collection, storage, and retrieval with an underwater sensor network I Vasilescu, K Kotay, D Rus, M Dunbabin, P Corke Proceedings of the 3rd international conference on Embedded networked sensor ...	635	2005
Tracking a moving object with a binary sensor network J Aslam, Z Butler, F Constantin, V Crespi, G Cybenko, D Rus Proceedings of the 1st international conference on Embedded networked sensor ...	508	2003
The self-reconfiguring robotic molecule K Kotay, D Rus, M Vona, C McGray Robotics and Automation, 1998. Proceedings. 1998 IEEE International ...	420	1998

TITLE	CITED BY	YEAR
Programmable matter by folding E Hawkes, B An, NM Benbernou, H Tanaka, S Kim, ED Demaine, D Rus, ... Proceedings of the National Academy of Sciences 107 (28), 12441-12445	410	2010
Sending messages to mobile users in disconnected ad-hoc wireless networks Q Li, D Rus Proceedings of the 6th annual international conference on Mobile computing ...	397	2000
Crystalline robots: Self-reconfiguration with compressible unit modules D Rus, M Vona Autonomous Robots 10 (1), 107-124	373	2001
A method for building self-folding machines S Felton, M Tolley, E Demaine, D Rus, R Wood Science 345 (6197), 644-646	358	2014
Decentralized, adaptive coverage control for networked robots M Schwager, D Rus, JJ Slotine The International Journal of Robotics Research 28 (3), 357-375	355 *	2009
Distributed algorithms for guiding navigation across a sensor network Q Li, M De Rosa, D Rus Proceedings of the 9th annual international conference on Mobile computing ...	352	2003
Deploying sensor networks with guaranteed fault tolerance JL Bredin, ED Demaine, MT Hajiaghayi, D Rus IEEE/ACM Transactions on Networking (TON) 18 (1), 216-228	323 *	2010
An untethered, electrostatic, globally controllable MEMS micro-robot BR Donald, CG Levey, CD McGray, I Paprotny, D Rus Journal of microelectromechanical systems 15 (1), 1-15	318	2006
Mobile agents for distributed information retrieval B Brewington, R Gray, K Moizumi, D Kotz, G Cybenko, D Rus Intelligent information agents, 355-395	300	1999
Moving furniture with teams of autonomous robots D Rus, B Donald, J Jennings Intelligent Robots and Systems 95.'Human Robot Interaction and Cooperative ...	293	1995

TITLE	CITED BY	YEAR
D'Agents: Security in a multiple-language, mobile-agent system RS Gray, D Kotz, G Cybenko, D Rus Mobile agents and security, 154-187	284	1998
Energy-efficient autonomous four-rotor flying robot controlled at 1 kHz D Gurdan, J Stumpf, M Achtelik, KM Doth, G Hirzinger, D Rus Robotics and Automation, 2007 IEEE International Conference on, 361-366	283	2007