

International Conference on Sensing, Diagnostics, Prognostics, and Control (SDPC 2018)
Northwestern Polytechnical University, Xi'an, China
August 15-17, 2018

CONFERENCE PROGRAM

Wednesday 8/15/2018	WEDNESDAY SESSIONS
10:00 - 19:30	Registration (Hotel Lobby)
7.30 - 9:30	Breakfast (Hotel Cafeteria)
	Hotel Second Floor
	INDUSTRY EXHIBITION Sponsorship Chairs: Dr. Shaowei Chen , Dr. Xihui Liang
13:00 - 17:30	<p>Beijing Masterpiece Technology Co., Ltd. (北京航天捷越科技有限公司)</p> <p>Shanghai Aero Measurement & Control Technology Research Institute (航空工业上海航空测控技术研究所)</p> <p>Beijing Aerospace Measurement & Control Technology Co., Ltd. (北京航天测控技术有限公司)</p> <p>MDPI - Sensors (曼迪匹艾 (北京) 科技服务有限公司)</p> <p>IEEE Reliability Society</p> <p>Unmanned System Research Institute & Research Center for Unmanned System Strategy Development (无人系统研究院 & 无人系统发展战略研究中心)</p> <p>National Key Laboratory of Science and Technology on Aircraft Control, FACRI (飞行器控制一体化技术国家级重点实验室, 航空工业自控所)</p>
18:00 - 20:00	Welcome Reception (Hotel Cafeteria)

Thursday 8/16/2018	THURSDAY SESSIONS
8:00 - 17:30	Registration (Hotel Lobby)
9:00 - 17:30	INDUSTRY EXHIBITION Sponsorship Chairs: Dr. Shaowei Chen , Dr. Xihui Liang
7:30 - 8:45	Breakfast (Hotel Cafeteria)
	Conference Opening (Auditorium, Hotel 3rd Floor) Dr. Jie Peter Liu - Honorary Chair, SDPC 2018; Associate Professor, Carleton University, Canada

9:00 - 9:30	Conference Overview Dr. Wenxing Fu - General Chair of SDPC 2018; Professor, Northwestern Polytechnical University, China			
	Speech of Welcome Vice President, Northwestern Polytechnical University, China			
9:30 - 10:30	Keynote - 1 (Keynote Chair: Dr. Nishchal Verma) Generalization of Model Analysis to Decouple Linear Dynamic Systems Keynote Speaker: Professor Fai Ma, University of California, Berkeley, USA			
	Keynote - 2 (Keynote Chair: Dr. Nishchal Verma) A Data-Centered World. On Blockchain, IoT and Big Data. Keynote Speaker: Professor Christian Hansen, Eastern Washington University, USA			
10:30 - 11:00	Morning Break			
11:00 - 12:00	Keynote - 3 (Keynote Chair: Dr. Xiaojian Yi) Recent Developments on Sensing, Diagnostics and Fault-Tolerant Control Applied to Unmanned Systems Keynote Speaker: Professor Youmin Zhang, Concordia University, Canada			
	Keynote - 4 (Keynote Chair: Dr. Xiaojian Yi) Complex System PHM Technologies: Challenges, Opportunities and Approaches Keynote Speaker: Fei Chen, Deputy General Manager, Beijing Aerospace Measurement & Control Technology Co., Ltd., Beijing, China			
12:00 - 13:45	Lunch (Hotel Cafeteria)			
	#1 Conference Room (2nd Floor)	#5 Conference Room (2nd Floor)	#8 Conference Room (2nd Floor)	#3 Conference Room (3rd Floor)
13:45 - 15:30	Paper Session I (Monitoring, Diagnostics and Prognostics Method) Chair: Dr. Datong Liu	Paper Session II (Aerospace and Aviation systems) Chair: Dr. Li Wang	Paper Session III (Advanced Fault Diagnosis Techniques for Gears and Bearings) Chair: Dr. Xihui Liang	TUTORIAL - I Tutorial Chair: Dr. Qiang Miao
	Paper #: 59 Paper #: 49	Paper #: 90 Paper #: 60	Paper #: 2 Paper #: 4	Intelligent Diagnostics of Rolling Element Bearings Professor Wilson Wang, Lakehead University, Canada
	Paper #: 93 Paper #: 130	Paper #: 51 Paper #: 45	Paper #: 114 Paper #: 8	
	Paper #: 73 Paper #: 16	Paper #: 107 Paper #: 83	Paper #:10 Paper #:11	
15:30 -16:00	Afternoon Break			
	#1 Conference Room (2nd Floor)	#5 Conference Room (2nd Floor)	#8 Conference Room (2nd Floor)	#3 Conference Room (3rd Floor)
16:00 - 17:45	Paper Session IV (Unmanned System and Its Applications) Chair: Dr. Youmin Zhang	Paper Session V (Advanced Sensing and Data Acquisition) Chair: Dr. Huina Mu	Special Paper Session VI (Advanced Fault Diagnosis Techniques for Gears and Bearings) Chair: Dr. Wilson Wang	TUTORIAL - II Tutorial Chair: Dr. Yixiang Huang
	Paper #: 25 Paper #: 115	Paper #: 14 Paper #: 72	Paper #: 75 Paper #: 13	Photonic Time Stretch: Linking Space, Spectrum and Time Towards Ultrafast Optical Measurement and Imaging Professor Chao Wang, University of Kent, UK
	Paper #: 67 Paper #: 53	Paper #: 71 Paper #: 68	Paper #: 18 Paper #: 113	
	Paper #: 70 Paper #: 110	Paper #: 44 Paper #: 123	Paper #: 23 Paper #: 124	
18:30 - 20:30	Conference Banquet, Best Paper Awards Announcement and SDPC 2019 Announcement (Banquet Hall, 4th Floor)			

Friday 8/17/2018	FRIDAY SESSIONS
-----------------------------------	------------------------

8:00 - 17:00	Registration (Hotel Lobby)			
8:30 - 17:00	INDUSTRY EXHIBITION Sponsorship Chairs: Dr. Shaowei Chen , Dr. Xihui Liang			
7:30 - 8:30	Breakfast (Hotel Cafeteria)			
	#1 Conference Room (2nd Floor)	#5 Conference Room (2nd Floor)	#8 Conference Room (2nd Floor)	#3 Conference Room (3rd Floor)
8:30 - 10:30	Paper Session VII (Intelligent Control Systems) Chair: Dr. Rui Zhao	Paper Session VIII (Maintenance Modeling and Optimization & Residual Life Prediction for Systems) Chair: Dr. Yongqiang Liu	Paper Session IX (Advanced Fault Diagnosis Techniques for Gears and Bearings) Chair: Dr. Guoliang Lu	TUTORIAL - III Tutorial Chair: Dr. Datong Liu
	Paper #: 7 Paper #: 39	Paper #: 30 Paper #: 33	Paper #: 37 Paper #: 47	Vision Based Automation for Inventory Control Professor Nishchal K. Verma, Indian Institute of Technology, Kanpur, India
	Paper #: 48 Paper #: 65	Paper #: 40 Paper #: 88	Paper #: 52 Paper #: 55	
	Paper #: 91 Paper #: 46	Paper #: 127 Paper #: 134	Paper #: 58 Paper #: 12	
Paper #: 69 Paper #: 182	Paper #: 26 Paper #: 64	Paper #: 126 Paper #: 54		
10:30 - 10:45	Morning Break			
	#1 Conference Room (2nd Floor)	#5 Conference Room (2nd Floor)	#8 Conference Room (2nd Floor)	#3 Conference Room (3rd Floor)
10:45 - 12:45	Paper Session X (Fault-adaptive Control Methods & Decision Support and Simulation) Chair: Dr. Yaquo Lei	Paper Session XI (Smart Sensing and Sensor Networks) Chair: Dr. Yixiang Huang	Paper Session XII (General Topics) Chair: Dr. Huina Mu	Paper Session XIII (Advanced Fault Diagnosis Techniques for Gears and Bearings) Chair: Dr. Xihui Liang
	Paper #: 6 Paper #: 19	Paper #: 38 Paper #: 62	Paper #: 21 Paper #: 57	Paper #: 79 Paper #: 81
	Paper #: 66 Paper #: 41	Paper #: 78 Paper #: 24	Paper #: 97 Paper #: 98	Paper #: 84 Paper #: 85
	Paper #: 43 Paper #: 99	Paper #: 125 Paper #: 63	Paper #: 111 Paper #: 122	Paper #: 87 Paper #: 89
Paper #: 112 Paper #: 20	Paper #: 42 Paper #: 32	Paper #: 28 Paper #: 180	Paper #: 5	
12:45 - 13:45	Lunch (Hotel Cafeteria)			
	#1 Conference Room (2nd Floor)	#5 Conference Room (2nd Floor)	#8 Conference Room (2nd Floor)	#3 Conference Room (3rd Floor)
13:45 - 15:45	Paper Session XIV (General Topics) Chair: Dr. Maotai Zhao	Paper Session XV (General Topics) Chair: Dr. Dongfang Yang	Paper Session XVI (Battery Thermal Management and Health Management) Chair: Dr. Yunxia Chen	Paper Session XVII (Data-Driven and Model-Based Methods) Chair: Dr. Ping Ding
	Paper #: 136 Paper #: 137	Paper #: 144 Paper #: 145	Paper #: 31 Paper #: 92	Paper #: 82 Paper #: 74
	Paper #: 138 Paper #: 139	Paper #: 146 Paper #: 147	Paper #: 94 Paper #: 101	Paper #: 36 Paper #: 117
	Paper #: 140 Paper #: 141	Paper #: 148 Paper #: 149	Paper #: 102 Paper #: 108	Paper #: 106 Paper #: 181
Paper #: 142 Paper #: 143	Paper #: 150 Paper #: 151	Paper #: 105 Paper #: 109	Paper #: 95 Paper #: 104	
15:45 -16:00	Afternoon Break			

	#1 Conference Room (2nd Floor)	#5 Conference Room (2nd Floor)	#8 Conference Room (2nd Floor)	#3 Conference Room (3rd Floor)
16:00 - 18:30	Paper Session XVIII (General Topics) Chair: Dr. Zhongmin Wang	Paper Session XIX (General Topics) Chair: Dr. Zhenqiang Wu	Paper Session XX (General Topics) Chair: Dr. Xu Liu	Notices
	Paper #: 152 Paper #: 153	Paper #: 156 Paper #: 157	Paper #: 172 Paper #: 173	Although we encourage that all the papers should be presented orally at the cofnerece, we will still prepare some poster stands in case some authors have to use posters to present their papers. These poster presentations will be arranged in the first two tracks in the afternoon on August 17. - SDPC 2018 OC
	Paper #: 154 Paper #: 155	Paper #: 158 Paper #: 159	Paper #: 174 Paper #: 175	
	Paper #: 160 Paper #: 161	Paper #: 166 Paper #: 167	Paper #: 176 Paper #: 177	
	Paper #: 162 Paper #: 163	Paper #: 168 Paper #: 169	Paper #: 178 Paper #: 179	
Paper #: 164 Paper #: 165	Paper #: 170 Paper #: 171			
18:30	Conference Adjourn			