

**2018 Prognostics and System Health Management Conference (PHM2018-Chongqing)**  
**Chongqing Technology and Business University, Chongqing, China**  
**October 26-28, 2018**  
**CONFERENCE PROGRAM**

Friday 10/26/2018	FRIDAY SESSIONS				
10:00 - 20:00	Registration (Hotel Lobby)				
7:30-9:00	Breakfast (Hotel Cafeteria)				
18:00-20:00	Welcome Reception (Hotel Cafeteria)				
Saturday 10/27/2018	SATURDAY SESSIONS				
7:30 - 17:30	Registration (Hotel Lobby)				
7:30 - 9:00	Breakfast (Hotel Cafeteria)				
9:00 - 9:45	<b>Conference Opening</b> (Hotel Multimedia Hall) Conference Overview Dr. Jie Peter Liu - General Chair, PHM 2018				
	Opening Remarks Dr. Michael Pecht - Honorary Chair, PHM 2018; Professor, University of Maryland, USA				
	Speech of Welcome Leader, Chongqing Technology and Business University, China				
9:45 - 10:30	Keynote - 1 (Chair: Dr. Claude Delpha) Helicopter Main Gearbox Planetary Bearing Fault Diagnosis Dr. David Mba - Pro Vice-Chancellor and Dean of Technology at De Montfort University, UK				
10:30 - 11:00	Morning Break				
11:00 - 11:45	Keynote - 2 (Chair: Dr. Demba Diallo) Enabling Modern Day Automotive Electronics using Physics of Failure Dr. Preeti Chauhan, Quality and Reliability Program Manager, Intel Corporation, USA				
11:45 - 14:00	Lunch (Hotel Ballroom)				
14:00 - 15:30	Room 1	Room 2	Room 3	Room 5	Room 6
	Paper Session I (PHM for Mechanical Systems/Bearings) Chair: Dr. Yongqiang Liu	Paper Session II (Machine Learning in PHM) Chair: Dr. Wang Li	Paper Session III (PHM for Electronic Systems) Chair: Dr. Guoliang Lu	Paper Session IV (Modeling and Estimation of Incipient Faults) Chair: Dr. Yingshun Li	Paper Session V (PHM for Gears) Chair: Dr. Zhinong Li
	Paper #: 260 Paper #: 276	Paper #: 44 Paper #: 124	Paper #: 164 Paper #: 173	Paper #: 16 Paper #: 49	Paper #: 262 Paper #: 272
	Paper #: 288 Paper #: 296	Paper #: 141 Paper #: 143	Paper #: 226 Paper #: 246	Paper #: 63 Paper #: 66	Paper #: 278 Paper #: 283
	Paper #: 297	Paper #: 241	Paper #: 252	Paper #: 71	Paper #: 290
	Poster and Industrial Exhibition (Hotel Hallway) Chairs: Dr. Youmin Zhang, Dr. Xuyun Fu				
Paper #: 2; Paper #: 7; Paper #: 15; Paper #: 17; Paper #: 42; Paper #: 50; Paper #: 54; Paper #: 56; Paper #: 58; Paper #: 64; Paper #: 65; Paper #: 72; Paper #: 75; Paper #: 76; Paper #: 79; Paper #: 84; Paper #: 87; Paper #: 88; Paper #: 98; Paper #: 113; Paper #: 115; Paper #: 318.					
15:30 - 16:00	Afternoon Break				
16:00 - 17:30	Room 1	Room 2	Room 3	Room 5	Room 6
	Paper Session VI (PHM for Rail Transportation) Chair: Dr. Zhiliang Liu	Paper Session VII (Machine Learning in PHM) Chair: Dr. Nagarajan Raghavan	Paper Session VIII (PHM for Space Mechanism) Chair: Dr. Hongyong Fu	Paper Session IX (Modeling and Estimation of Incipient Faults) Chair: Dr. Asoke Nandi	Paper Session X (PHM for Gears) Chair: Dr. Zhinong Li
	Paper #: 6 Paper #: 9	Paper #: 249 Paper #: 275	Paper #: 212 Paper #: 214	Paper #: 74 Paper #: 78	Paper #: 13 Paper #: 19
	Paper #: 20 Paper #: 67	Paper #: 295 Paper #: 298	Paper #: 217 Paper #: 230	Paper #: 80 Paper #: 103	Paper #: 31 Paper #: 47
	Paper #: 69	Paper #: 302	Paper #: 236	Paper #: 156	Paper #: 293
	Poster and Industrial Exhibition (Hotel Hallway) Chairs: Dr. Youmin Zhang, Dr. Xuyun Fu				
Paper #: 116; Paper #: 125; Paper #: 126; Paper #: 130; Paper #: 131; Paper #: 133; Paper #: 134; Paper #: 261; Paper #: 139; Paper #: 140; Paper #: 144; Paper #: 147; Paper #: 152; Paper #: 162; Paper #: 163; Paper #: 165; Paper #: 168; Paper #: 169; Paper #: 171; Paper #: 172; Paper #: 175.					
17:30 - 18:00	Break				
18:00 - 20:30	Conference Banquet, Best Paper Awards Announcement and PHM 2019 Paris Announcement (Hotel Ballroom)				

Sunday 10/28/2018	SUNDAY SESSIONS				
7:30 - 17:00	Registration (Hotel Lobby)				
7:30 - 8:30	Breakfast (Hotel Cafeteria)				
	Room 1	Room 2	Room 3	Room 5	Room 6
8:30 - 10:00	<b>Paper Session XI (PHM for Transportation)</b> Chair: Dr. Yilin Zhou	<b>Paper Session XII (PHM for Mechanical Systems/Bearings)</b> Chair: Dr. Wenliao Du	<b>Paper Session XIII (Deep Learning in PHM)</b> Chair: Dr. Yixiang Huang	<b>Paper Session XIV (Modeling and Estimation of Incipient Faults)</b> Chair: Dr. Claude Delpha	<b>Paper Session XV (Testability for PHM)</b> Chair: Dr. Dan Xu
	Paper #: 117 Paper #: 119	Paper #: 43 Paper #: 95	Paper #: 81 Paper #: 148	Paper #: 177 Paper #: 180	Paper #: 3 Paper #: 138
	Paper #: 129 Paper #: 146	Paper #: 114 Paper #: 153	Paper #: 195 Paper #: 245	Paper #: 184 Paper #: 187	Paper #: 166 Paper #: 178
	Paper #: 150 Paper #: 107	Paper #: 158 Paper #: 234	Paper #: 247	Paper #: 193	Paper #: 192
	Poster and Industrial Exhibition (Hotel Hallway) Chairs: Dr. Youmin Zhang, Dr. Xuyun Fu				
Paper #: 176; Paper #: 179; Paper #: 182; Paper #: 189; Paper #: 191; Paper #: 196; Paper #: 197; Paper #: 203; Paper #: 204; Paper #: 209; Paper #: 211; Paper #: 216; Paper #: 222; Paper #: 223; Paper #: 224; Paper #: 227; Paper #: 231; Paper #: 235; Paper #: 239; Paper #: 242.					
10:00 - 10:30	Morning Break				
	Room 1	Room 2	Room 3	Room 5	Room 6
10:30 - 12:00	<b>Paper Session XVI (PHM for Special Vehicles)</b> Chair: Dr. Xiaojian Yi	<b>Paper Session XVII (PHM for Mechanical Systems/Bearings)</b> Chair: Dr. Ge Xin	<b>Paper Session XVIII (PHM in Aerial and Spacecraft Engineering)</b> Chair: Dr. Zhongkui Zhu	<b>Paper Session XIX (Modeling and Estimation of Incipient Faults)</b> Chair: Dr. Huina Mu	<b>Paper Session XX (PHM in Big Data Era)</b> Chair: Dr. Yaguo Lei
	Paper #: 151 Paper #: 201	Paper #: 167 Paper #: 185	Paper #: 100 Paper #: 232	Paper #: 210 Paper #: 220	Paper #: 26 Paper #: 101
	Paper #: 202 Paper #: 205	Paper #: 188 Paper #: 218	Paper #: 240	Paper #: 221 Paper #: 238	Paper #: 284 Paper #: 289
	Paper #: 207	Paper #: 237		Paper #: 253	Paper #: 309
	Poster and Industrial Exhibition (Hotel Hallway) Chairs: Dr. Youmin Zhang, Dr. Xuyun Fu				
Paper #: 251; Paper #: 254; Paper #: 259; Paper #: 263; Paper #: 266; Paper #: 267; Paper #: 268; Paper #: 270; Paper #: 273; Paper #: 274; Paper #: 279; Paper #: 280; Paper #: 281; Paper #: 282; Paper #: 303; Paper #: 306; Paper #: 307; Paper #: 308; Paper #: 121; Paper #: 145;					
12:00 - 13:30	Lunch (Hotel Cafeteria)				
	Room 1	Room 2	Room 3	Room 5	Room 6
13:30 - 15:00	<b>Paper Session XXI (PHM for Transportation)</b> Chair: Dr. Erik Vanem	<b>Paper Session XXII (PHM for Mechanical Systems/Bearings)</b> Chair: Dr. Yi Qin	<b>Paper Session XXIII (PHM for Energy Systems)</b> Chair: Dr. Qiang Miao	<b>Paper Session XXIV (System Diagnostics)</b> Chair: Dr. Hongyong Fu	<b>Paper Session XXV (Sensing and Testing in PHM)</b> Chair: Dr. Datong Liu
	Paper #: 4 Paper #: 10	Paper #: 1 Paper #: 12	Paper #: 123 Paper #: 127	Paper #: 24 Paper #: 128	Paper #: 22 Paper #: 46
	Paper #: 248 Paper #: 256	Paper #: 14 Paper #: 25	Paper #: 142 Paper #: 206	Paper #: 155 Paper #: 181	Paper #: 53 Paper #: 108
	Paper #: 277 Paper #: 319	Paper #: 28		Paper #: 208	Paper #: 160
15:00 - 15:30	Afternoon Break				
	Floor F, Room 1	Floor F, Room 2	Floor F, Room 3	Floor F, Room 5	Floor F, Room 6
15:30 - 17:00	<b>Paper Session XXVI (Virtual Simulation for Diagnostics and Prognostics)</b> Chair: Dr. Demba Diallo	<b>Paper Session XXVII (PHM for Mechanical Systems/Bearings)</b> Chair: Dr. Juanjuan Shi	<b>Paper Session XXVIII (PHM for Artificial Intelligence)</b> Chair: Dr. Ling Zhao	<b>Paper Session XXIX (System Diagnostics)</b> Chair: Dr. Feiyue Deng	<b>Paper Session XXX (Sensing and Testing in PHM)</b> Chair: Dr. Ping Ding
	Paper #: 85 Paper #: 157	Paper #: 45 Paper #: 82	Paper #: 92 Paper #: 200	Paper #: 213 Paper #: 286	Paper #: 190 Paper #: 199
	Paper #: 183 Paper #: 215	Paper #: 154 Paper #: 161	Paper #: 255	Paper #: 287	Paper #: 269
	Paper #: 264 Paper #: 265	Paper #: 194			
17:00	Conference Adjourn				