

PHME 2022 Program at-a-glance

Monday Jul 4th. Note, venue for short course is NH Hotel Torino Centro

Time	Room TBC
08:00 – 10:00	PHM Data Analytics Short Course Day 1 (Separate registration required)
10:00 – 10:15	Break
10:15 – 12:00	PHM Data Analytics Short Course Day 1 (Separate registration required)
12:00 – 13:00	Lunch
13:00 – 15:00	PHM Data Analytics Short Course Day 1 (Separate registration required)
15:00 – 15:15	Break
15:15 – 17:00	PHM Data Analytics Short Course Day 1 (Separate registration required)

PHME 2022 Program at-a-glance

Tuesday Jul 5th Note, venue for short course and Doctorial Symposium is NH Hotel Torino Centro

Time	Room TBC	Room TBC
08:00 – 10:00	PHM Data Analytics Short Course Day 2 (Separate registration required)	
09:00-10:00	(Continuation of above session)	Doctorial Symposium
10:00 – 10:15	Break	
10:15 – 12:00	PHM Data Analytics Short Course Day 2 (Separate registration required)	Doctorial Symposium
12:00 – 13:00	Lunch	
13:00 – 15:00	PHM Data Analytics Short Course Day 2 (Separate registration required)	Doctorial Symposium
15:00 – 15:15	Break	
15:15 – 17:00	PHM Data Analytics Short Course Day 2 (Separate registration required)	Doctorial Symposium

17:30-19:30	Welcome Reception - including main conference registration Also includes Posters from Doctorial Symposium Please note venue is NH Hotel Torino Centro
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PHME 2022 Program at-a-glance

Wednesday Jul 6th Unione Industriali

Time	Sala Giovanni Agnelli	Sala Piemonte	Sala Torino
08:00 – 17:00	Registration		
08:30 – 09:00		Opening remarks (Sala Giovanni Agnelli)	
09:00 – 10:30	Key Note 1 (Sala Giovanni Agnelli): Towards Effective Machine Health Monitoring by Prof Jacob Bortman (University of the Negev Beer-Sheva, Isreal)		
10:30 – 11:00	Break		
11:00 – 12:30	Paper Session 1A: Structural health management/ Vibrations analysis for PHM. Part 1 (Chair: Jeff Bird)	Paper Session 1B: Special Session ADEPT. Part 1 (Chair: Prof Slawomir Nowaczyk)	Paper Session 1C: Statistics and Machine Learning in PHM (Chair: Dr Steve King)
12:30 – 13:30	Lunch		
13:30 – 15:00	Tutorial 1 - Machine Learning Methods: The Essentials (Dr Yvonne Lu, Oxford University)	Paper Session 2B: PHM Design and Validation (Chair: Pero Baraldi)	Paper Session 2C: PHM in Wind Turbines (Chair: Dr Lilach Goren)
15:00 – 15:30	Break		
15:30 – 17:00	Paper Session 2A: PHM for Automotive, Rail, Marine, and Energy . Part 1 (Chair: Associate Prof Bin Zhang)	Panel session 1: Diversity and Mentorship in the PHM Community (Facilitator: Jeff Bird, Rhonda Waltwall)	Paper Session 3C: Prognostics Development (Chair: Dr Gabriel Michau)
17:30 – 19:00	Social Program – opportunity to join a selection of guided tours of local sites of Turin. Note, separate registration required.		

PHME 2022 Program at-a-glance

Thursday Jul 7th Unione Industriale

Time	Sala Giovanni Agnelli	Sala Piemonte	Sala Torino
08:00 – 17:00	Registration		
09:00 – 10:30	Paper Session 3A: Special Session: Inducing Physics and domain expert knowledge in deep learning algorithms for PHM Applications Part 1 (Chair: Dr Manuel Aria Chao)	Tutorial 2 – Advanced Recurrent Neural Networks for Time-Series Data (Dr Anshul Thakur, Oxford University)	Paper Session 4C: PHM for electronics and electrical engineering systems and plants (Chair: TBC)
10:30 – 11:00	Break		
11:00 – 12:30	Paper Session 4A: Structural health management/ Vibrations analysis for PHM. Part 2 (Chair: Prof Jacob Bortman)	Panel session 2: PHM for Batteries (Facilitator: Associate Prof Bin Zhang)	Paper Session 5C: PHM Solutions (Chair: Prof Ian Jennions)
12:30 – 13:30	Lunch		
13:30 – 15:00	Key Note 2 (Sala Giovanni Agnelli): Transitioning to EV Buses Successfully and beyond, by Rune Prytz (Head of Research at Stratio)		
15:00 – 15:30	Break		
15:30 – 17:00	Paper Session 5A: PHM for Manufacturing (Production planning and Control)/ Industries (Chair: Dave Larsen)	Paper Session 3B: Special Session: Inducing Physics and domain expert knowledge in deep learning algorithms for PHM Applications Part 2 (Chair: Dr Manuel Aria Chao)	Panel Session 3: Standards and Regulations Affecting PHM (Facilitator: Jeff Bird)
19:30 – 23:00	Gala Dinner at Museum Risorgimento		

PHME 2022 Program at-a-glance

Friday Jul 8th Unione Industriali

Time	Sala Giovanni Agnelli	Sala Piemonte	Sala Torino
08:30 – 12:00	Registration		
09:00 – 10:30	Paper Session 6A: PHM for Automotive, Rail, Marine, and Energy . Part 2 (Chair: Vincent Cheriére)	Paper Session 4B: Autoencoders for PHM Applications (Chair: Dr Gabriel Michau)	Tutorial 3 – Challenges of Implementing Clinical ML Research (Dr Davide Morelli – CTO Huma Italy)
10:30 – 11:00	Break		
11:00 – 12:30	Paper Session 7A: Special Session ADEPT 2 (Chair: Rune Prytz)	Paper Session 5B: Uncertainty in PHM Design (Chair: Associate Prof Khanh Nguyen)	Paper Session 6C: PHM at the Components/ Sub-system/ System level (Chair: Dr Steve King)
12:30 – 13:30	Lunch		
13:30 – 15:00	Panel Session 4: Transportation from PHM (Facilitator: Dr Gabriel Michau)	Paper Session 6B: PHM Development (Chair: Associate Prof Piero Baraldi)	Paper Session 7C: Data Challenge Results and Papers Led by Danilo Giordano
15:00 – 15:15	Short break		
15:15 – 15:45	Closing remarks and Conference Close (Sala Giovanni Agnelli)		