



10th Workshop Opening

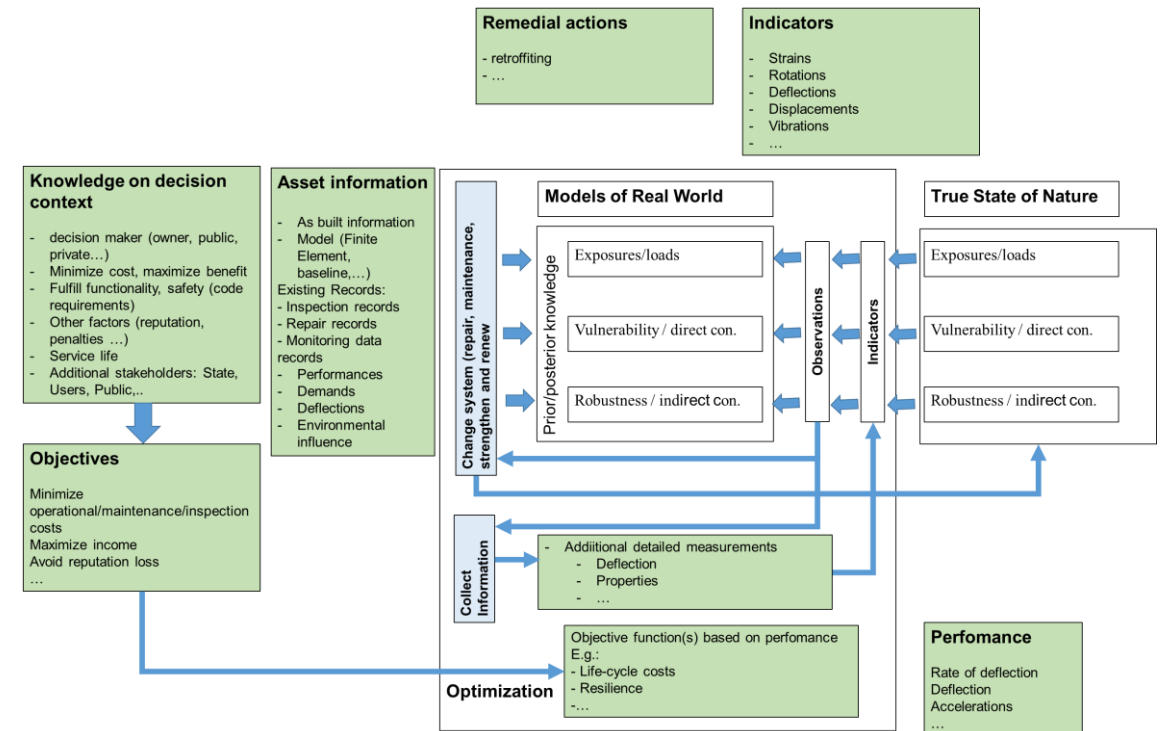
Sebastian Thöns

Department of Civil Engineering, Technical University of Denmark, Denmark

9th TU1402 Workshop: Case Studies, Strategies, Model, and Tools



- 37 participants from 20 countries





Special Sessions on Value SHM Information



ICOSAR 2017, Vienna, Austria

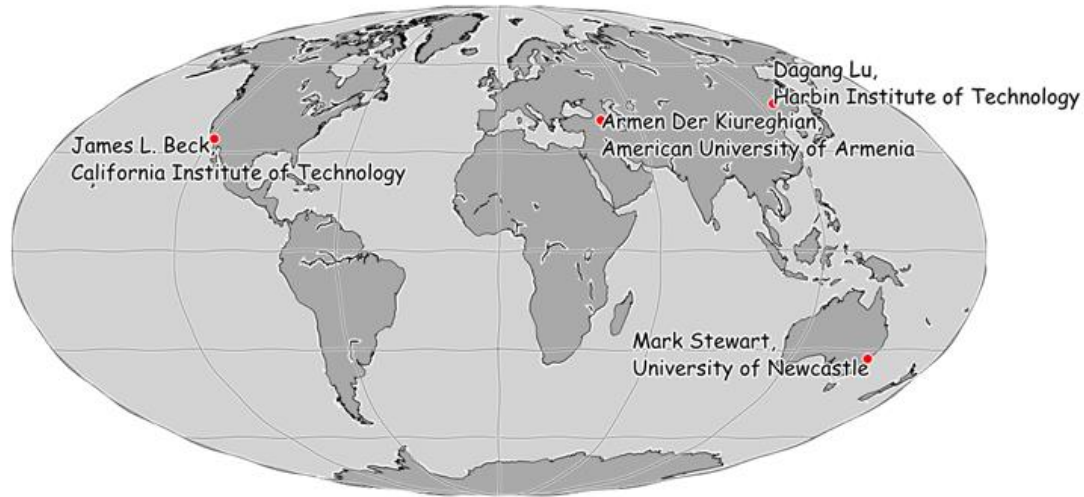
- 2 Session with 10 papers

IWSHM 2017, Stanford, USA

- 3 Sessions with 15 papers
- Award winning paper for the most practical SHM solution for civil/mechanical system



International partners



MC Observers

- Prof. Mark G. Stewart, University of Newcastle, Australia
- Prof. Michael D. Todd, University of California San Diego, USA, (COST approval expected soon)
- Prof. Dagang Lu, Harbin Institute of Technology, Harbin, China, (COST approval expected soon)

Pending

- Prof. Jim Beck (California Institute of Technology, USA)
- Prof. Matteo Pozzi (Carnegie Mellow University, USA)

Prof. Jianjun Qin has become a member of TU1402 due to the change of affiliation and country



Activities to come



COST Action TU 1402

Quantifying the Value of Structural Health Monitoring

- Special Sessions
 - IABMAS, Melbourne, Australia from July 9-13, 2018
 - IALCCE, Ghent, Belgium from October 28-31, 2018
 - EWSHM, Manchester, UK, July 10-13, 2018
 - Abstract Submission until the end of 2017
 - IABSE, Nantes, France, September 19-21, 2018
 - Abstract Submission until November 15th, 2017
- Case studies, standardisation (WG4 and WG5)
- Scientific Missions
- Dissemination in scientific journals

We will support and adjust to any good ideas!




COST Action TU1402: Key deliverables

1. Dedicated dissemination activities.
 - E.g.: workshops, special sessions at international conferences, training courses, scientific missions
2. A well-developed homepage.
 - Activity documentation with videos, presentations and reports
3. A library of tools and algorithms.
4. A chapter to the Probabilistic Model Code of the JCSS.
 - Documentation the scientific framework and approaches
5. A guideline on the quantification of the value and optimization of SHM.
 - Detailed examples
 - For practising engineers



COST Action TU1402: Scientific Program


Tasks		Year															
		1				2				3				4			
		Quarter				Quarter				Quarter				Quarter			
		I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Task 1: Theoretical Framework																	
a	Clarification of the theory	■	■	■	■												
b	Formulation of the theory for applications			■	■	■	■										
c	Communication of the theory							■	■								
M1	Dissemination							■									
Task 2: SHM Strategies and Structural Performance																	
a	SHM and structural performance categorisation	■	■	■	■												
b	SHM information modelling platform			■	■	■	■										
M2	Dissemination							■									
Task 3: Methods and Tools																	
a	Databases and modelling toolboxes for engineers and researchers					■	■	■	■								
b	Advancement of algorithms for efficient computation							■		■							
M3	Dissemination									■							

We are here 



COST Action TU1402: Scientific Program

Tasks		Year															
		1				2				3				4			
		Quarter				Quarter				Quarter				Quarter			
		I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Task 4: Case Studies Portfolio																	
a	Selection of case studies					■	■	■	■								
b	Case study calculation and documentation									■	■	■	■				
M4	Dissemination													■	■	■	■
Task 5: Development of Guidelines																	
a	Chapter of JCSS Probabilistic Model Code (PMC)													■	■	■	■
b	Guideline on the quantification of the value and optimization of SHM													■	■	■	■
M5	Dissemination of guidelines																■

We are here 



10th TU1402 Workshop

Objective

The objective of the 10th Workshop is to progress with the work on the case studies and to produce first results, which will be published in a workshop report. The work on the case studies will be supported by TU1402 participants from Working Group 1, 2 and 3.

Organisation

The 10th Workshop focusses on supervised and joint work on the case studies on November 9th 2017. The following day (November 10th) is used for the plenum presentations of the case study results, discussion and further planning. WG1, WG2, WG3, WG5 and WG6 and TU1402 Activities are encouraged to use the Day 4 for Mini Workshops or coordination when not actively involved in case studies.

Deliverables

The deliverables include:

- (1) Workshop Report containing the case study results,
- (2) Mini workshop reports (in a report format containing several factsheets).



10th TU1402 Workshop

08:30 – 08:45	10th Workshop Opening and Organisation
08:45 – 09:15	Helder Sousa: Industry Innovation Days – a roadmap
09:15 – 09:30	Maria Giovanna Masciotta: TU1402 Dissemination: Smart tips for the perfect social media post
Coffee Break	
10:00 – 12:00	Joint Case Studies Work and Mini Workshops <ul style="list-style-type: none">▪ Case study teams (TU1402 and Training School participants) work together with lecturers and trainers from WG 1, 2 and 3 in parallel sessions.▪ Mini Workshops: WG1, WG2, WG3, WG5 and WG6 and TU1402 Activities<ul style="list-style-type: none">▪ Innovation Committee and WG4: coordination and organisation of IABSE Special Session▪ WG3 coordination on benchmark and collection of tools



10th TU1402 Workshop

13:00 – 16:00	Joint Case Studies Work and Mini Workshops cont. <ul style="list-style-type: none">▪ Case study teams (TU1402 and Training School participants) work together with lecturers and trainers from WG 1, 2 and 3 in parallel sessions.▪ Mini Workshops: WG1, WG2, WG3, WG5 and WG6 and TU1402 Activities<ul style="list-style-type: none">▪ Innovation Committee and WG4: coordination and organisation of IABSE Special Session▪ WG3 coordination on benchmark and collection of tools
Coffee Break	
16:00 – 18:00	Steering Committee Meeting
20:00	10th Workshop Networking Dinner , Hotel Ristorante La Darsena (see last page)



Thank you for your attention.

Let us have a good workshop.