



# Experience Sharing on visit to Busan, South Korea

PARAMANAND NANDIHAL

#### Preparation

- Applying for funds
- Visa Application
- Air ticket
- Travel insurance
- Conference registration
- Accommodation arrangement

#### Funding Agencies

#### ► IIT

- Department of Science & Technology (DST)
- Council of Scientific and Industrial Research (CSIR)
- AICTE (Applicant must be employed in University/Institution/College recognized by the AICTE)
- Indian National Science Academy (INSA)
- Centre for International Co-operation in Science (CICS)

#### DST International Travel Grant

- Application form: <u>www.dst.gov.in</u>
- Documents required
  - Invitation letter
  - Bio-data
  - List of publications
  - Conference advertisement
  - Conference paper abstract
  - Air India quotation
- Reimbursement: After coming back

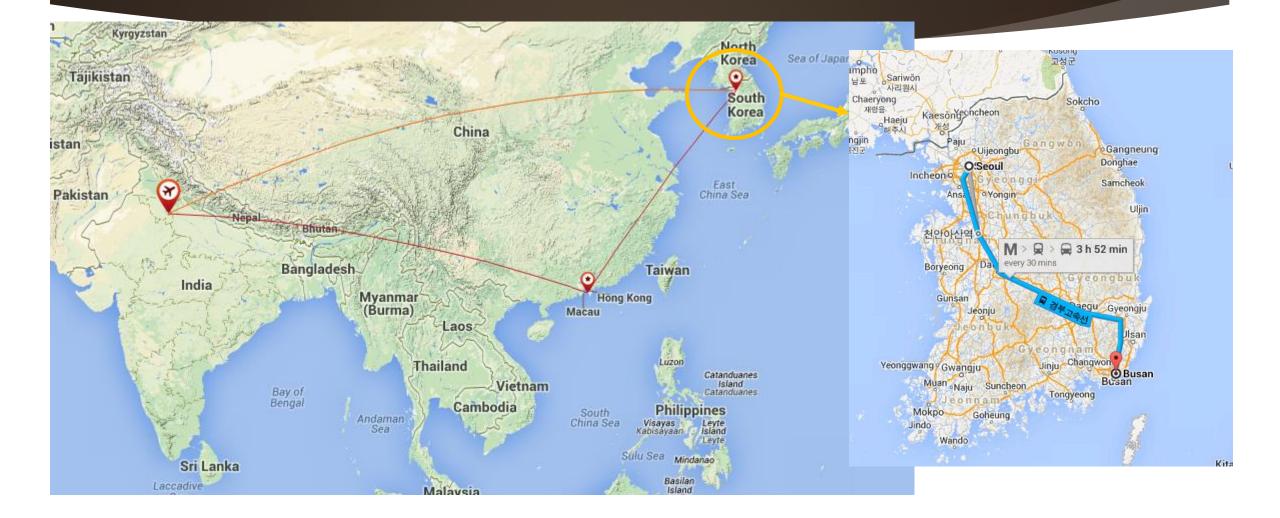
#### Tour summary

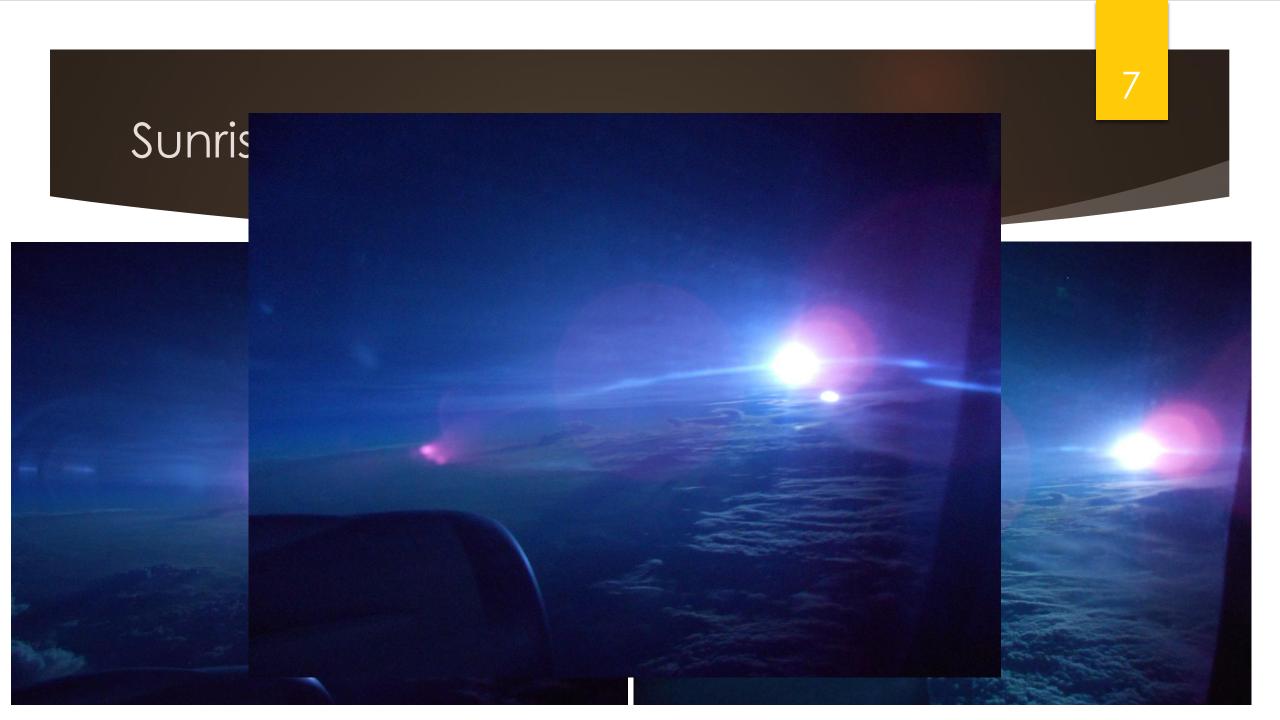
Flight Air India from Delhi to Seoul on 28<sup>th</sup> June at 11:15 pm Train from Incheon airport Seoul to Seoul station on 29<sup>th</sup> June at 03:15 pm Train from Seoul station to Busan on 29<sup>th</sup> June at 07:00 pm

4 day conference IMSD-ACMD 2014 from 29<sup>th</sup> June – 3<sup>rd</sup> July at BEXCO, Busan and Sight seeing

Train from Busan to Seoul station on 4<sup>th</sup> July at 09:00 am Train from Seoul station to Incheon airport Seoul on 4<sup>th</sup> July at 12:30 pm Flight Air India from Seoul to Delhi on 4<sup>th</sup> June at 02:15 pm

#### Route Map





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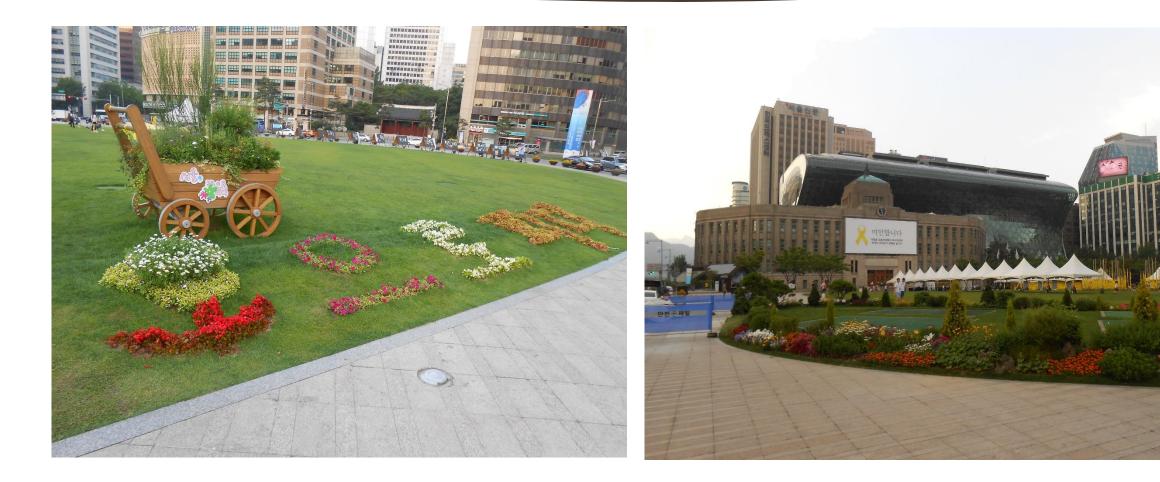


#### At Seoul

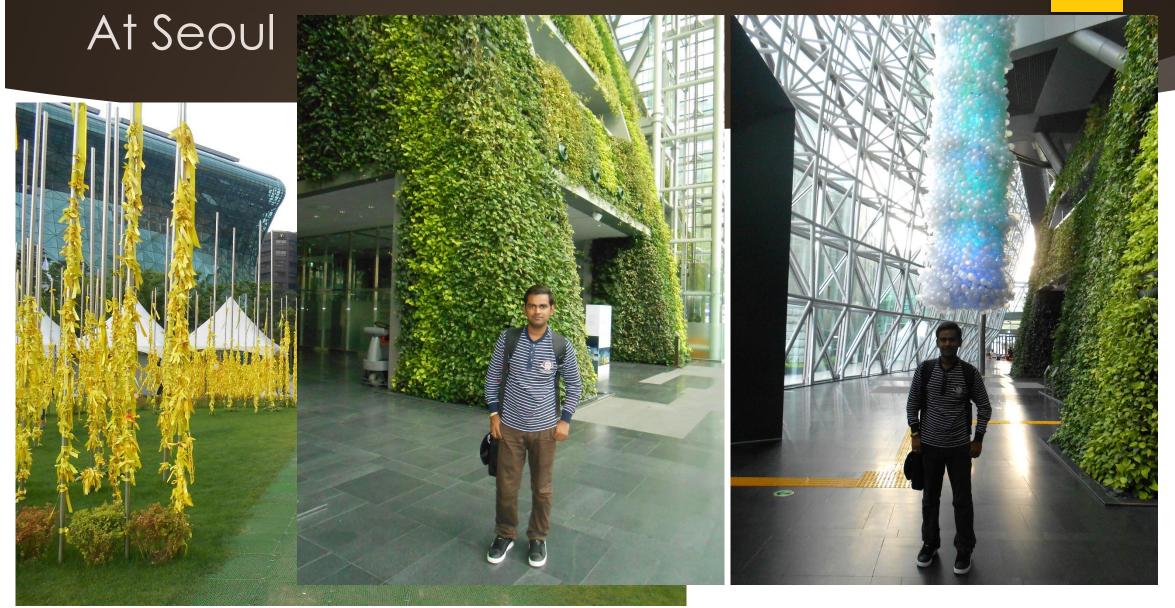
서울특별시청 Seoul City Hall



#### At Seoul







## KTX high speed train





#### Busan





#### Conference venue: BEXCO





#### **INDIA** representation in conference



#### Multibody dynamic song....



#### Dynamics of Closed-Loop Rigid-Flexible Multibody Systems Using DeNOC Matrices

AUTHORED AND PRESENTED BY PARAMANAND V. NANDIHAL<sup>+</sup>

#### CO-AUTHORED BY PROF. SUBIR K. SAHA<sup>+</sup>, PROF. OLIVIER A. BAUCHAU<sup>#</sup>

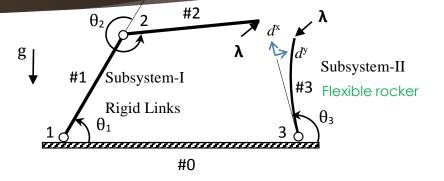
+ INDIAN INSTITUTE OF TECHNOLOGY DELHI, INDIA

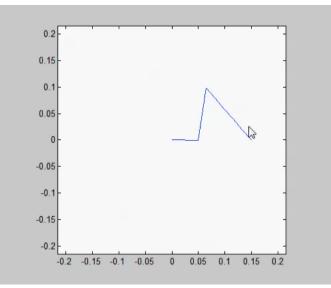
# UNIVERSITY OF MICHIGAN-SHANGHAI JIAO TONG UNIVERSITY JOINT INSTITUTE, SHANGHAI, CHINA



#### Presentation overview

- The use of the DeNOC-based formulation of a multibody system for solving the closed-loop rigid-flexible system is introduced for the first time.
- The method allows one to develop recursive forward dynamic formulation by cutting an appropriate joint of the closed-loop system under study to form several openloop subsystems.
- The formulation is illustrated with a rigid-flexible four-bar mechanism considering the output-link flexible



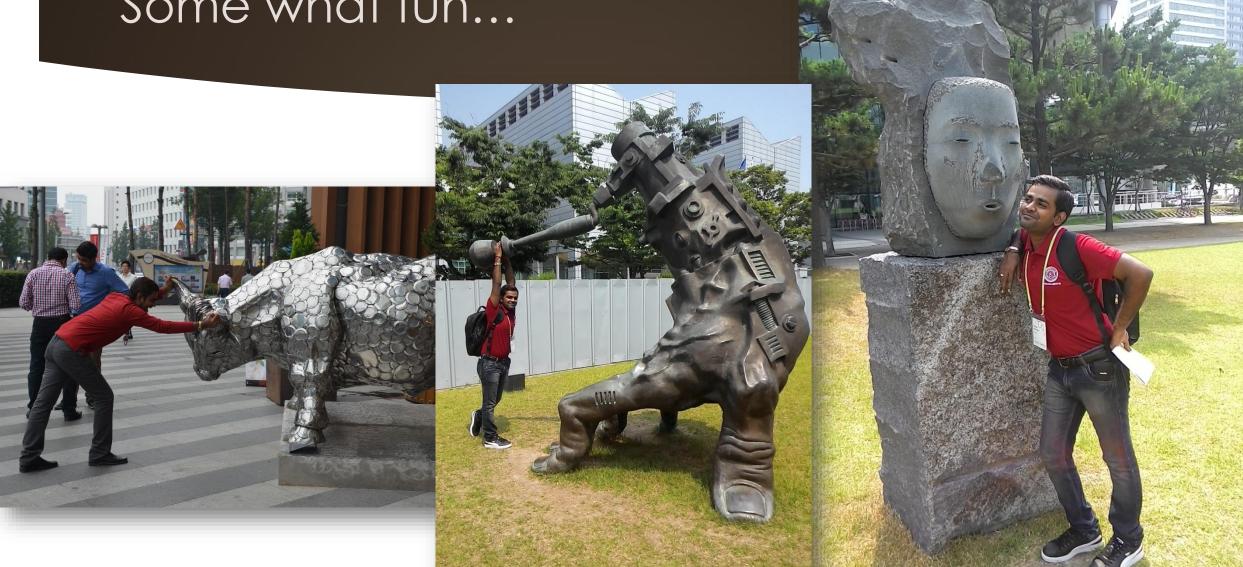


## Some places in Pusan

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### Some what fun...



## Returning back to INDIA



#### Acknowledgement

- Prof. S. K. Saha for guiding me and encouraging me the to write the paper.
- Prof. O.A. Bauchau for guiding me (while I was in China) and co-authoring the paper

- All my lab-mates from Mechatronics and PAR lab and Jaitly Sir for helping me in every step in travel preparation.
- Finally, DST for providing me the International travel grant.

## THANK YOU

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ACMD2014