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SEVENTH SEMESTER B.TECH. (INSTRUMENTATION AND CONTROL ENGG.) END SEMESTER EXAMINATIONS, DEC- 2017

SUBJECT: MULTI SENSOR DATA FUSION [ICE 4011]

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** questions.
- Missing data may be suitably assumed.

1A.	Discuss the role of data fusion.	4				
1B.	Describe general multi sensor data fusion system with necessary diagram.					
1C.	Brief about sensor observation model.					
2A.	Briefly explain stitching algorithm with example.	3				
2B.	Discuss the different scales of measurement used in radiometric normalization	4				
2C.	Briefly describe the need for common representation format in sensor data fusion process.	3				
3A.	Explain the steps involved in derivative dynamic time warping.					
3B.	Write a note on data fusion and resource management duality key concepts.	3				
3C.	Explain the information processing cycle of data fusion process.	4				
4A.	Explain basic JDL framework with necessary diagram.	5				
4B.	Explain the process of validation in Esteban multi sensor framework.	2				
4C.	Explain search tree data association algorithm.	3				
5A.	With the block diagram explain the working of Waterfall data fusion framework.					
5B.	Compare the function of lou-key and omnibus model.					
5C.	Compare puzzle solving and command-control Metaphor techniques of data fusion automation.	3				

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