

JULY

27

Friday

RESEARCH IN INFORMATION SECURITY

2018

Week 30

208-157

⁹ TAUGHT BY

¹⁰ • prof. ashok Kumar das

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COURSE TOPICS

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¹ • software vulnerability analysis

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• non-web software vulnerabilities

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- low-level bug

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- buffer overflow

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- use after free

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• binary code analysis

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• static program analysis

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• dynamic program analysis (fuzzing)

• application of SAT/SMT solvers for security

• application of evolutionary computing / machine learning for security program analysis.

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Saturday

- web specific vulnerabilities and their analysis
(eg. XSS, CSRF, SQL injection, etc.)

2. malware analysis

- introduction to reverse engineering (x86 code only)
- obfuscation techniques
- android malwares
- biologically inspired approaches to malware detection.

3. intrusion detection system

- machine learning approaches for IDS / IPS
- autonomic security
- critical infrastructure security approaches

Sunday 29

TEXT BOOKS

- practical malware analysis ; sikorski.

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2018	*	*	*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	*

AUGUST