

Project ON144018: "Advanced Methods in Cryptology and Information Processing"

List of the Main Project Results in the Year 2006

I. Journal Class Papers

- [1] M. Fossorier, M. Mihaljevic, H. Imai, Y. Cui and K. Matsuura, "An Algorithm for Solving the LPN Problem and its Application to Security Evaluation of the HB Protocols for RFID Authentication", *Lecture Notes in Computer Science*, vol.4329, pp. 48-62, Dec. 2006. (ISSN 0302-9743; Impact Factor in Year 2004: 0.513; Impact Factor in Year 2005: 0.402)
- [2] M. Mihaljevic, M. Fossorier and H. Imai, "Security Weaknesses of Certain Broadcast Encryption Schemes", *Lecture Notes in Computer Science*, vol. 3919, pp. 228-245, July 2006, (ISSN 0302-9743; Impact Factor in Year 2004: 0.513; Impact Factor in Year 2005: 0.402)
- [3] M. Mihaljevic, M. Fossorier and H. Imai, "A Novel Broadcast Encryption Based on Time-Bound Cryptographic Keys", *Lecture Notes in Computer Science*, vol. 3919, pp. 258-276, July 2006. (ISSN 0302-9743; Impact Factor in Year 2004: 0.513; Impact Factor in Year 2005: 0.402)
- [4] J. Wang, M. Mihaljevic, L. Harn, and H. Imai, "A Hierarchical Key Management Approach for Secure Multicast", *Lecture Notes in Computer Science*, vol. 3894, pp. 422-434, March 2006. (ISSN 0302-9743; Impact Factor in Year 2004: 0.513; Impact Factor in Year 2005: 0.402)
- [5] M. Mihaljevic, M. Fossorier and H. Imai, "A General Formulation of Algebraic and Fast Correlation Attacks Based on Dedicated Sample Decimation", *Lecture Notes in Computer Science*, vol. 3857, pp. 203-214, Feb. 2006. (ISSN 0302-9743; Impact Factor in Year 2004: 0.513; Impact Factor in Year 2005: 0.402)
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"On the Orientability of Shapes",
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Impact Factor in Year 2005: 2.428)
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"Shape Orientability",
Lecture Notes In Computer Science, vol. 3852, pp. 11–20, Feb. 2006.
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Impact Factor in Year 2005: 0.402)
- [10] R. Klette and J. Zunic,
"On Discrete Moments of Unbounded Order",
Lecture Notes In Computer Science, vol. 4245, pp. 367-378, 2006.
(ISSN 0302-9743; Impact Factor in Year 2004: 0.513;
Impact Factor in Year 2005: 0.402)
- [11] J. Zunic,
"Boundary Based Orientation of Polygonal Shapes",
Lecture Notes in Computer Science, vol. 4319, pp. 108-117. Dec. 2006.
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- [12] J. Dj. Golic and R. Menicocci,
"Statistical Distinguishers for Irregularly Decimated
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- [14] J. Pieprzyk, X.-M. Zhang, and J.Dj. Golic,
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II. International Book Chapters

[21] M.Markovic, Z.Savic and B.Kovacevic,
"Secure Mobile Health Systems: Principles and Solutions",
chapter in the book *M-Health, Emerging Mobile Health Systems*,
pp. 81-106; Series: *International Topics in Biomedical Engineering*
Istepanian, Robert; Laxminarayan, Swamy; Pattichis, Constantinos S. (Eds.)
2006, XXX, 624 p. 182 illus., Hardcover, ISBN: 0-387-26558-9.

[22] M. N. Huxley, R. Klette and J. Zunic:
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Kluwer Publisher, 2006.

III. Other Results: Invited Talks, International and National Conference Papers, Tutorials, ...

[23] M.Markovic, M.Kilibarda and A.Milošević,
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"Data Protection Technics and Cryptographic Protocols in Modern Computer
Networks",
Tutorial, 13th International Conference on Telecommunications, ICT 2006,
Madeira, Portugal, May 9-12, 2006.

[26] M. Markovic,
"Combining Authentication with Secure Payment",
in Proc. of Cartes 2006, Paris, Nov. 7-9, Invited lecture.

[27] M.Markovic and G.Đorđević,
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