Professor Eric <u>Granger</u>

Correspondence language: English
Sex: Male

Contact Information

The primary information is denoted by (*)

Address

<u>Primary Affiliation</u> (*)

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Professor Eric **Granger**

Language Skills

Language	Read	Write	Speak	Understand	Peer Review
English	Yes	Yes	Yes	Yes	Yes
French	Yes	Yes	Yes	Yes	Yes

Degrees

- 2002/5   Doctorate, Génie électrique, École Polytechnique de Montréal

Supervisors: Yvon Savaria, 1995/1 - 2002/5

- 1995/3   Bachelor's, Microélectronique, Université du Québec à Montréal

User Profile

Research Specialization Keywords: Adaptive Systems, Biometrics, Computer Vision, Evolutionnary Computation, Face Recognition, Microelectronic Systems, Multi-Classifier Systems, Neural and Statistical Classifiers, On-line and Incremental Learning, Pattern Recognition, Security and Surveillance, Video Surveillance

Research Disciplines: Computer Engineering and Software Engineering, Electrical Engineering and Electronic Engineering

Areas of Research: Shape Recognition and Computer Graphics, Neuronal Systems, Imagery, Distributed and Simultaneous Processing, Algorithms

Fields of Application: Communication and Information Technologies

Employment

2014/6   Professor
                Génie de la production automatisée, École de technologie supérieure
                Full-time, Professor
                Tenure Status: Tenure

2014/6   Director, Laboratoire d'imagerie, de vision et d'intelligence artificielle
                Génie de la production automatisée, École de technologie supérieure
                Full-time
                Tenure Status: Tenure

2008/7   Director, Master's Program
                Génie de la production automatisée, École de technologie supérieure
                Full-time
                Tenure Status: Tenure

2007/6 - 2014/6   Associate Professor
                Génie de la production automatisée, École de technologie supérieure
                Full-time, Associate Professor
                Tenure Status: Tenure

2010/6 - 2011/6	Research Scientist Science and Engineering Directorate, Canadian Border Services Agency
2004/1 - 2007/6	Assistant Professor Génie de la production automatisée, École de technologie supérieure Full-time, Associate Professor Tenure Status: Tenure Track
2001/2 - 2003/10	ASIC Research Engineer Research and Development, Integrated Systems Design Section, Mitel Networks Inc.
1999/1 - 2001/2	Defence Scientists Electronic Support Measure Section, Defence Research and Development Canada (DRDC) - Ottawa, DND
1998/1 - 1998/5	Visiting Scholar Cognitive and Neural Systems, Graduate School of Arts & Sciences , Boston University Full-time Tenure Status: Non Tenure Track
1994/4 - 1994/9	Research Assistant Informatique, Faculté des sciences, Université du Québec à Montréal Full-time, Term Tenure Status: Non Tenure Track

Leaves of Absence and Impact on Research

2011-06-01 - 2012-05-31	Sabbatical, University of Cagliari Worked with Profs. Roli, Marcialis and Fumera of the Pattern Recognition and Applications group. Our joint research activities sought to investigate adaptive and multi-classifier systems that can provide high performance in changing environments. The had lead to a successful grant application with the MDEIE-SIIRI program, and a longer term research collaboration.

Research Funding History

Awarded [n=6]

2013/4 - 2019/4 Co-investigator	Regroupement stratégique sur l'Étude des Environnements PARTagés Intelligents répartis (REPARTI), Grant

Funding Sources:

2019/4 - 2013/4	Fonds de recherche du Québec - Nature et technologies (FRQNT) Programme de regroupements stratégiques Total Funding - 2,160,000 Portion of Funding Received - 90,000 Funding Competitive?: Yes

Co-investigator : 26 others;

Principal Investigator : Laurendeau, Denis

2015/8 - 2017/5 Principal Investigator	Visualization of Facial Trajectories for Fast Adjudication in Watchlist Screening, Grant

Funding Sources:

2015/8 - 2017/5	MITACS Accelerate Internship Program (with Face4 Systems Inc) Total Funding - 106,667 Portion of Funding Received - 106,667 Funding Competitive?: Yes

Co-investigator : Bell, Robert; Arnon, ilan

2012/5 - 2017/5 Co-applicant	LIVIA - Laboratoire d'imagerie, de vision et d'intelligence artificielle, Grant

Funding Sources:

2012/5 - 2017/5	École de Technologie Supérieure (ÉTS) PSIRE - Unité de Recherche Accrédité (URA) Total Funding - 121,000 Portion of Funding Received - 17,285 Funding Competitive?: Yes

Co-investigator : Cheriet, Mohamed; Landry, Jacques-André; Lepage, Richard; Noumeir; Rita; Wong, Tony ;

Principal Investigator : Sabourin, Robert

2014/9 - 2016/9 Co-investigator	Faces on the Move: Multi-Camera Watchlist Screening, Grant

Funding Sources:

2014/9 - 2016/9	National Defence (Canada) Public Security Technical Program Total Funding - 1,033,674 Portion of Funding Received - 48,000 Funding Competitive?: Yes

Co-investigator : Bissessar, David; Arnon, Ilan; Mungham, Tony; Detombe, John; Smith, Mike;

Principal Investigator : Bell, Robert

2011/5 - 2016/5 Principal Investigator	Adaptive Multi-Classifier Systems for Biometric Recognition, Grant

Funding Sources:

2011/5 - 2016/5	Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant Total Funding - 110,000 Portion of Funding Received - 110,000 Funding Competitive?: Yes

2013/1 - 2016/1 Principal Investigator	Systèmes adaptatifs pour la reconnaissance de visages en vidéosurveillance, Grant

Funding Sources:

2013/1 - 2016/1	Fonds de recherche du Québec - Nature et technologies (FRQNT) Projet de recherche en équipe Total Funding - 135,000 Portion of Funding Received - 45,000 Funding Competitive?: Yes

Completed [n=9]

2014/5 - 2015/1 Principal Investigator	An Evaluation of Fusion Techniques for Face Recognition in Video Surveillance, Grant

Funding Sources:

2014/5 - 2015/1	Natural Sciences and Engineering Research Council of Canada (NSERC) Engage (with Nextgen ID inc.) Total Funding - 25,000 Portion of Funding Received - 25,000 Funding Competitive?: Yes

2007/9 - 2014/9 Co-investigator	Conception d'un système de biomarquage pour les images bitonales, Contract

Funding Sources:

2007/9 - 2012/9   BancTec (USA)
Research Contract
Total Funding - 200,000
Portion of Funding Received - 100,000
Funding Competitive?: No

Principal Investigator : Sabourin, Robert

2011/9 - 2013/9
Principal Investigator   Pilot and Research on Operational Video-Based Evaluation of Infrastructure and Technology: Face Recognition in Video, Contract

Funding Sources:

2011/9 - 2013/9   Canadian Border Services Agency
Contract from National Defence (Canada), Public Security Technical Program Call 3 (Biometrics CoP), applc
Total Funding - 91,500
Portion of Funding Received - 91,500
Funding Competitive?: Yes

Principal Knowledge User : Dmitry O. Gorodnichy

2015/4 - 2012/4
Principal Investigator   Systèmes de fusions adaptatifs pour la reconnaissance de visages en vidéosurveillance, Grant

Funding Sources:

2012/4 - 2015/4   Ministère du développement économique, de l'innovation et de l'exportation (MDEIE)
Programme de soutien à la recherche, volet 3 (PSR-SIIRI)
Total Funding - 126,000
Portion of Funding Received - 63,000
Funding Competitive?: Yes

2008/10 - 2011/9
Co-investigator   Une approche évolutive pour le bio-marquage rapide des documents numériques, Grant

Funding Sources:

2008/10 - 2011/9   Natural Sciences and Engineering Research Council of Canada (NSERC)
Strategic Project Grants Program
Total Funding - 354,950
Portion of Funding Received - 177,475
Funding Competitive?: Yes

Principal Investigator : Sabourin, Robert

2006/5 - 2011/5
Co-investigator   LIVIA - Laboratoire d'imagerie, de vision et d'intelligence artificielle, Grant

Funding Sources:

2005/6 - 2009/5   École de Technologie Supérieure (ÉTS)
PSIRE - Unité de Recherche Accrédité (URA)
Total Funding - 112,000
Portion of Funding Received - 15,680
Funding Competitive?: Yes

Co-investigator : Landry, Jacques-André; Lepage, Richard; Noumeir; Rita; Sabourin, Robert; Wong, Tony;

Principal Investigator : Cheriet, Mohamed

2010/5 - 2010/12
Principal Investigator   Comptage de foules dans les espaces publiques, Contract

Funding Sources:

2010/5 - 2010/12	Partenariat du Quartier des spectacles
	Total Funding - 11,592
	Portion of Funding Received - 5,796
	Funding Competitive?: Yes

2005/5 - 2010/5
Principal Investigator

Incremental Learning Techniques for Automatic Detection and Recognition from Incomplete Data, Grant

Funding Sources:

2005/5 - 2010/5	Natural Sciences and Engineering Research Council of Canada (NSERC)
	Discovery Grant - Individual
	Total Funding - 100,000
	Portion of Funding Received - 100,000
	Funding Competitive?: Yes

2010/5 - 2010/5
Co-investigator

Calculateur rapide et spécialisé pour le traitement massivement parallèle des documents numériques, Grant

Funding Sources:

2010/5 - 2011/5	Natural Sciences and Engineering Research Council of Canada (NSERC)
	Outils et instruments de recherche - catégorie 1
	Total Funding - 22,690
	Portion of Funding Received - 11,345
	Funding Competitive?: Yes

Principal Investigator : Sabourin, Robert

Under Review [n=2]

2016/5 - 2021/5
Principal Investigator

Adaptive Context-Based System for Face and Activity Recognition in Video Surveillance, Grant

Funding Sources:

2021/5 - 2016/5	Natural Sciences and Engineering Research Council of Canada (NSERC)
	Discovery
	Total Funding - 175,000
	Portion of Funding Received - 175,000
	Funding Competitive?: Yes

2016/9 - 2017/3
Principal Investigator

Fusion of Face and Speech Characteristics for Real-Time Recognition of Behaviors in Human-Centric E-Learning, Grant

Funding Sources:

2015/9 - 2016/3	Natural Sciences and Engineering Research Council of Canada (NSERC)
	Engage (with NVS Learning Inc)
	Total Funding - 25,000
	Portion of Funding Received - 25,000
	Funding Competitive?: Yes

Student/Postdoctoral Supervision

Bachelor's Honours [n=2]

2012/9 - 2012/12
Principal Supervisor

Tijami, Adil (Completed) , ETS
Thesis/Project Title: Analysis of Face Image Quality in Undergraduate Student, ÉTS
Video Streams

2009/1 - 2009/8
Principal Supervisor

Naud, Richard (Completed) , ETS
Thesis/Project Title: Détection de nouveauté avec réseaux Fuzzy ARTMAP
Present Position: Doctoral student, ÉTS

Master's Thesis [n=5]

2015/4 - 2017/4
Principal Supervisor

Salois, Patrick (In Progress) , ETS
Thesis/Project Title: Image super-resolution using patch-based sparse representations

2013/9 - 2015/8
Principal Supervisor

Amara, Ibtihel (Completed) , ETS
Thesis/Project Title: Still-to-Video Face Recognition Systems Using Local Quality-Based Matching

2010/8 - 2010/5
Principal Supervisor

Tliba, Safa (Completed) , ETS
Thesis/Project Title: L'optimisation des systèmes de marquage numériques
Present Position: Doctoral Student, ETS

2009/9 - 2012/3
Principal Supervisor

Prieur, Donavan (Completed) , ETS
Thesis/Project Title: Processeurs neuroniques pour reconnaissance de visages
Present Position: Research Assistant, ETS and Vantrix Inc.

2009/5 - 2010/8
Principal Supervisor

Pagano, Christophe (Completed) , ETS
Thesis/Project Title: Systèmes spatio-temporels pour la reconnaissnce de visages
Present Position: Doctoral student, ÉTS

Doctorate [n=14]

2014/1 - 2018/1
Principal Supervisor

Mokhayeri, Faniya (In Progress) , ETS
Thesis/Project Title: Synthetic Generation of Faces in Still-to-Videi Face Recognition
Present Position: Doctoral student, ÉTS

2013/9 - 2017/9
Principal Supervisor

Soleymani, Roghayeh (In Progress) , ETS
Thesis/Project Title: Ensemble of SVMs for Video-to-Video Face Recognition in
Imbalanced Environment

2013/5 - 2017/5
Co-Supervisor

Carbonneau, Marc-André (In Progress) , ETS
Thesis/Project Title: Real-Time Recognition of Events for Video Analysis of Hockey
Games
Present Position: Doctoral student, ÉTS

2013/1 - 2017/1
Principal Supervisor

Bashbaghi, Saman (In Progress) , ETS
Thesis/Project Title: Contextual Fusion of Experts for Face Screening Applications

2012/5 - 2014/5
Co-Supervisor

Dittrich, Fábio (Withdrawn) , ETS
Thesis/Project Title: Adaptive Learning with Concept Drift in Biometrics

2010/9 - 2013/6
Principal Supervisor

Tliba, Safa (Withdrawn) , ETS
Thesis/Project Title: Le bio-marquage par zone de documents numérisés

2010/9 - 2015/8
Principal Supervisor

Pagano, Christophe (Completed) , ETS
Thesis/Project Title: Adaptive Classifier Ensembles Face Recognition in Video
Surveillance

2009/9 - 2015/3 Principal Supervisor	de la Torre Gómora, Miguel Ángel (Completed) , ETS Thesis/Project Title: Modular Neural Networks for Video Face Recogniton Present Position: Professor, Dept. of CS & Eng. CUValles, University of Guadalahara, Mexico
2009/5 - 2013/8 Co-Supervisor	Guerdy, Bassem (Completed) , ETS Thesis/Project Title: Fast Intelligent Watermarking of Grey Scale Images Present Position: Senior SW Developer, Ericsson Canada
2009/5 - 2014/8 Co-Supervisor	Eskander, George (Completed) , ETS Thesis/Project Title: Bio-crypto Systems Based On the Offline Signature Images Present Position: Senior Data Scientist, United Technologies
2007/9 - 2013/4 Co-Supervisor	Vellasques, Eduardo (Completed) , ETS Thesis/Project Title: Bio-Watermarking of Digital Document Images Present Position: Principal Engineer (Voice Technologies), Nokia Inc.
2007/5 - 2012/8 Principal Supervisor	Connolly, Jean-François (Completed) , ETS Thesis/Project Title: ADAPTING HETEROGENEOUS ENSEMBLES WITH PARTICLE SWARM OPTIMIZATION FOR VIDEO FACE RECOGNITION Present Position: Machine Learning Specialist, Datacratic Inc.
2006/9 - 2011/12 Co-Supervisor	Batista, Luana Bezerra (Completed) , ETS Thesis/Project Title: Incremental Learning and Change Detection in Signature Verification Present Position: Senior NLU Engineer, Nuance Communications
2005/5 - 2010/8 Principal Supervisor	Khreich, Wael (Completed) , ETS Thesis/Project Title: Incremental Learning of HMMs in Computer & Network Security Present Position: Lead Optimization Scientist, Exchange Solutions

Post-doctorate [n=6]

2015/5 - 2017/6 Principal Supervisor	Nourbakhsh, Farshad (In Progress) , ETS Thesis/Project Title: Visualization of Facial Trajectories for Fast Adjudication in Watchlist Screening
2015/4 - 2016/7 Co-Supervisor	Ghiass, Reza Shoja (In Progress) , ETS Thesis/Project Title: Screen Gaze Estimation from Standard Video Hardware
2012/4 - 2014/6 Principal Supervisor	Dewan, Mohamed Ali (Completed) , ETS Thesis/Project Title: Spatio-Temporal Recognition in Video Surveillance Present Position: School of Computing and Information Systems, Athabasca University, Edmonton
2011/9 - 2012/8 Co-Supervisor	Rattani, Ajita (Completed) , University of Cagliari Thesis/Project Title: Biometric template updating using graph-based representation Present Position: Post Doctoral Fellow at Michigan State University, USA
2011/6 - 2013/1 Principal Supervisor	Radtke, Paulo Vinicius (Completed) , ETS Thesis/Project Title: Evaluation of Technologies for Face Rec in Video Surveillance Present Position: Senior Software Developer, Nuance Inc., Montreal
2011/5 - 2013/5 Co-Supervisor	Ksantini, Riadh (Completed) , ETS Thesis/Project Title: Adaptive System Based on One-Class Classification Present Position: Reasearch Assistant, University of Windsor.

Research Associate [n=1]

2009/5 - 2011/5 Co-Supervisor	Thibodeau, Éric (Completed) , ETS Thesis/Project Title: Une approche évolutive pour le bio-marquage rapide des documents numériques (NSERC Strategic Grants Program) Present Position: Programmer-Analyst, Caisse Desjardins, Montreal

Event Administration

2014-12-09 - 2014-12-12	Special session (Adaptive Biometric Systems: Recent Advances and Challenges), 2014 IEEE Symposium onComputational Intelligence in Biometrics and Identity Management, Conference, 2014-12-09 - 2014-12-12
2012-06-10 - 2012-06-15	Special session (Intelligent Computation on Biometrics), 2012 IEEE World Congress on Computational Intelligence , Conference, 2012-06-10 - 2012-06-15
2011-04-11 - 2011-04-15	Special session (Adaptive Biometric Systems), 2011 IEEE Workshop on Computational Intelligence in Biometrics and Identity Management , Conference, 2011-04-11 - 2011-04-15

Editorial Activities

2012/9 - 2017/9	Editorial Board Member, International Journal on Biometric, Journal
- 2015/8	Reviewer, Elsevier's Information Fusion, Information Systems, Expert Systems with Applications, Pattern Recognition (Letters), Signal Processing, CV and Image Understanding, Engineering Applications of AI, Journal
- 2015/8	Reviewer, IEEE Trans. on Pattern Analysis and Machine Intelligence; Systems, Man and Cybernetics; Information Forensics & Security; Aerospace and Electronic Systems; Neural Networks and Leanring Systems;, Journal
- 2015/8	Session chair, program committee member and/or reviewer for various Int'l conferences, ANNPR, CCECE, CEC, CIBIM, CISDA, ICASSP, ICOSSIP, ICDAR, ICFHR, ICPRAM, IJCB, IJCNN, ISCAS, SCCI, WCCI, etc., Conference Abstract
- 2015/8	Reviewer, Neuro-computing, Computer; Vision and Image Understanding; Int'l Journal of Biometrics; Int'l Journal on Multi-Sensor and Multi-Source; IET Biometrics; Statistical Analysis and Data Mining, Journal
- 2015/6	Co-editor, Advances in Computer Vision and Pattern Recognition (Springer International Publishing), Book

Organizational Review Activities

2014-05-01 - 2015-09-01	Graduate Program Review (GPA), École de technologie supérieure CREPUQ evaluation of the depatemental Master's program.
2012-09-01 - 2013-09-01	Undergraduate Program Review (GPA), École de technologie supérieure Evaluation of the departmental undergraduate program. Report on strategic development of program.

Knowledge and Technology Translation

2014/6 - 2017/6	Academic Partner, R&D Collaboration with Industry Group/Organization/Business Serviced: Face 4 Systems Target Stakeholder: Industry/Business-Small (<100 employees) Outcome / Deliverable: **Visualization of Facial Trajectories for Fast Adjudication in Watchlist Screening (with R. Bell and I. Arnon of Face 4 Systems)**
2015/6 - 2016/6	Academic Partner, R&D Collaboration with Industry Group/Organization/Business Serviced: NVS Learning Inc Target Stakeholder: Industry/Business-Small (<100 employees) Outcome / Deliverable: Fusion of Face and Speech Characteristics for Real-Time Recognition of Behaviors in Human-Centric E-Learning (with G Gagnon of ETS and P. Rivards of NVS)

2013/9 - 2015/6	Academic Partner, R&D Collaboration with Industry Group/Organization/Business Serviced: Quattriuum Inc. Target Stakeholder: Industry/Business-Small (<100 employees) Outcome / Deliverable: Indoor Localisation Based on Hybrid RF/Inertial Navigation for Real-Time Automatic Video Tracking of Athleates (with G. Gagnon of ETS and O. Munger of Quattriuum)
2014/1 - 2014/8	Academic Partner, R&D Collaboration with Industry Group/Organization/Business Serviced: Cofely Services Target Stakeholder: Industry/Business (>500 employees) Outcome / Deliverable: Investigation of alternatives for detectionindividual intrusions into airport luggage sorting systems. (with D. Casaubon from ETS and D. Riendeau of Cofely Services).
2010/9 - 2011/4	Academic Partner, Consulting for Industry Group/Organization/Business Serviced: Partenariat du Quartier des spectacles Target Stakeholder: Private Not-for-Profit Organization Outcome / Deliverable: A Study of Methods for **Automated People Counting from Video in the Quartier des Spectacles (with R. Lepage of ETS and B. Lamothe of PQS)**

International Collaboration Activities

2014-06-01	Principal InvestigatorCanada Face Recognition from Videos using Variants of Spatiotemporal Local Binary Patterns (A. Hadid, University of Oulu, Finland)
2012-05-01	Principle Investigator, Canada Ensembles of SVMs for Video Face Recognition from Imbalanced Data (G. Fumera (University of Cagliari, Italy and U. Pal, Indian Statistical Institute, India)
2012-04-01	Co-Investigator, Canada Research Project: Adaptive Systems for Face Recognition in Video Surveillance (with Prof. Bilodeau with École Polytechnique de Montréal and Prof. Sabourin, ÉTS)
2011-09-01	Principal Investigator, Canada Adaptive Fusion in Video Surveillance (Prof. Roli with the University of Cagliari, Italy, and Prof. Sabourin with ÉTS). An official MOU has been concluded between ÉTS and the University of Cagliari in order to facilitate research collaboration and mobility between institutions.

Committee Memberships

2014/9 - 2017/9	Committee Member, Comité de la recherche (GPA), École de technologie supérieure
2007/5 - 2017/5	Chair, Comité de programme (master's GPA), École de technologie supérieure
2014/4 - 2016/4	Committee Member, Comité de promotions, École de technologie supérieure
2014/5 - 2015/8	Committee Member, Departmental hiring comitte (GPA), École de technologie supérieure
2009/8 - 2015/8	Committee Member, PhD and M.Sc.A. jury, École de technologie supérieure Has served as a jury member on 20+ advisory Ph.D. or M.Ing. committees over the past 6 years.
2009/5 - 2015/8	Committee Member, ISO/IEC JTC1 SC37 Canadian Advisory Committee on Biometrics, École de technologie supérieure
2010/6 - 2015/7	Committee Member, Task Force on Biometrics, IEEE Computational Intelligence Society ISATC, École de technologie supérieure

Other Memberships

2011-05-01 - 2015-08-01	Member, Regroupement pour l'étude desenvironnements partagés intelligents répartis (REPARTI)
2009-05-01 - 2015-08-01	Member, International Neural Network Society
2006-05-01 - 2015-08-01	Member, Regroupement stratégique en microsystèmes du Québec (ReSMIQ)
2004-01-04 - 2015-08-01	Director, Laboratoire d'imagerie, de vision et d'intelligence artificielle
2004-01-01 - 2015-08-01	Member, Ordre des Ingénieurs du Québec
2006-08-01 - 2015-01-01	Member, IEEE Computational Intelligence Society (CIS)

Presentations

1. (2014). Adaptive Systems for Face Recognition in Video Surveillance. Center for Machine Vision Research -- Seminar Series (Department of Computer Science and Engineering, U of Oulu), Oulu, Finland
   Main Audience: Researcher
   Invited?: Yes, Keynote?: No

2. (2012). Adaptive Biometric Recognition. PRA group -- seminar series (Department of Electrical and Electronic Engineering, U of Cagliari), Cagliari, Italy
   Main Audience: Researcher
   Invited?: Yes, Keynote?: No

Text Interviews

2015-02-14	Recherche en vidéosurveillance au LIVIA , Substance
2011-08-18	A visage ouvert, Québec Science
2009-04-29	Système biométrique vidéo en développement à Montréal, Agence QMI
2009-03-01	Systèmes biométriques adaptatifs, Découvrir, vol 30, no. 2,

Publications

Journal Articles

1. De-la-Torre, M., Granger, E., Sabourin, R., Gorodnichy, D.O.(2015). Adaptive skew-sensitive ensembles for face recognition in video surveillance. Pattern Recognition. 48(11): 3385–3406.
   Published
   Refereed?: Yes

2. Pagano, C., Granger, E., Sabourin, R., Marcialis, G.-L., Roli, F.(2015). Dynamic Weighting of Classifier Ensembles from Trajectories in Video-to-Video Face Recognition. IEEE Trans. on Neural Networks and Learning Systems.
   Submitted
   Refereed?: Yes

3. Saman Bashbaghi, Eric Granger, Robert Sabourin, Guillaume-Alexandre Bilodeau. (2015). Watch-List Screening Using Ensembles of Exemplar-SVMs Based on Multiple Face Representations. Pattern Recognition.
   Submitted
   Refereed?: Yes

4. De-la-Torre, Miguel, Granger, Eric, Sabourin, Robert, Gorodnichy, Dmitry O. (2015). An adaptive ensemble-based system for face recognition in person re-identification. Machine Vision and Applications. 26(6): 741-773.
   Published
   Refereed?: Yes

5. De la Torre, Miguel, Granger, Eric, Sabourin, Robert, Gorodnichy, Dmitry. (2015). Individual-specific management of reference data in adaptive ensembles for face re-identification. IET -- Computer Vision Journal. : 1-9.
   Published
   Refereed?: Yes

6. De-la-Torre, Miguel, Granger, Eric, Radtke, Paulo VW, Sabourin, Robert, Gorodnichy, Dmitry O. (2015). Partially-supervised learning from facial trajectories for face recognition in video surveillance. Information Fusion. 24: 31-53.
   Published
   Refereed?: Yes

7. Dewan, M., Granger, E., Marcialis, G.-L., Sabourin, R., Roli, F.(2015). Adaptive Appearance Model Tracking for Still-to-Video Face Recognition. Pattern Recognition.
   Revision Requested
   Refereed?: Yes

8. Dewan, M., Granger, E., Roli, F., Sabourin, R., et Marcialis, G.-L.(2015). Survey of Tracking Methods for Spatiotemporal Face Recognition in Video Surveillance. ACM Computing Surveys.
   Submitted
   Refereed?: Yes

9. Eskander, G.S., Sabourin R., Granger E.(2015). Optimized Dissimilarity Representations with Application to Signature Verification and Bio-Cryptography. IEEE Trans. on Neural Networks and Learning Systems.
   Submitted
   Refereed?: Yes

10. Rabil, Bassem S, Sabourin, Robert, Granger, Eric. (2014). Rapid blockwise multi-resolution clustering of facial images for intelligent watermarking. Machine Vision and Applications. 25(2): 277-300.
    Published
    Refereed?: Yes

11. Pagano, C, Granger, E, Sabourin, R, Marcialis, GL, Roli, F. (2014). Adaptive ensembles for face recognition in changing video surveillance environments. Information Sciences. 286: 75-101.
    Published
    Refereed?: Yes

12. Chakravorty, Tanushri, Bilodeau, Guillaume-Alexandre, Granger, Eric. (2014). Automatic Image Registration in Infrared-Visible Videos using Polygon Vertices. arXiv preprint arXiv:1403.4232.
    Published
    Refereed?: No, Open Access?: Yes

13. Eskander, George S, Sabourin, Robert, Granger, Eric. (2014). Offline signature-based fuzzy vault (OSFV): review and new results. arXiv preprint arXiv:1408.3985.
    Published
    Refereed?: No, Open Access?: Yes

14. Eskander, George S, Sabourin, Robert, Granger, Eric. (2014). A bio-cryptographic system based on offline signature images. Information Sciences. 259: 170-191.
Published
Refereed?: Yes

15. Radtke, Paulo VW, Granger, Eric, Sabourin, Robert, Gorodnichy, Dmitry O. (2014). Skew-sensitive Boolean combination for adaptive ensembles - An application to face recognition in video surveillance. Information Fusion. 20: 31-48.
Published
Refereed?: Yes

16. Eskander, George S, Sabourin, Robert, Granger, Eric. (2013). Hybrid writer-independent-writer-dependent offline signature verification system. IET Biometrics (Special Issue on Handwriting Biometrics). 2(4): 169-181.
Published
Refereed?: Yes

17. Samet, Saeed, Miri, Ali, Granger, Eric. (2013). Incremental learning of privacy-preserving Bayesian networks. Applied Soft Computing. 13(8): 3657-3667.
Published
Refereed?: Yes

18. Connolly, Jean-François, Granger, Eric, Sabourin, Robert. (2013). Dynamic multi-objective evolution of classifier ensembles for video face recognition. Applied Soft Computing. 13(6): 3149-3166.
Published
Refereed?: Yes

19. Rabil, Bassem S, Tliba, Safa, Granger, Eric, Sabourin, Robert. (2013). Securing high resolution grayscale facial captures using a blockwise coevolutionary GA. Expert Systems with Applications. 40(17): 6693-6706.
Published
Refereed?: Yes

20. Vellasques, Eduardo, Sabourin, Robert, Granger, Eric. (2013). DS-DPSO: A dual surrogate approach for intelligent watermarking of bi-tonal document image streams. Expert Systems with Applications. 40(13): 5240-5259.
Published
Refereed?: Yes

21. Vellasques, Eduardo, Sabourin, Robert, Granger, Eric. (2013). Fast intelligent watermarking of heterogeneous image streams through mixture modeling of PSO populations. Applied Soft Computing. 13(6): 3130-3148.
Published
Refereed?: Yes

22. Rivard, Dominique, Granger, Eric, Sabourin, Robert. (2013). Multi-feature extraction and selection in writer-independent off-line signature verification. International Journal on Document Analysis and Recognition. 16(1): 83-103.
Published
Refereed?: Yes

23. Connolly, Jean-François, Granger, Eric, Sabourin, Robert. (2012). An adaptive classification system for video-based face recognition. Information Sciences. 192: 50-70.
Published
Refereed?: Yes

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Intellectual Property

Patents

1. Intelligent system and method for detecting and diagnosing faults in heating, ventilating and air conditioning (hvac) equipment. Canada. US 20120072029 A1. 2010-09-20.
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