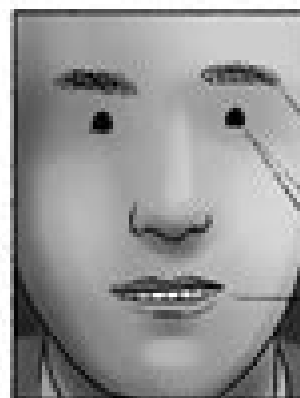




Sadness

- drooping upper eyelids
- losing focus in eyes
- slightly putting down lip corners



Fear

- eyebrows raised and pulled together
- raised upper eyelids
- tensed lower eyelids
- lips slightly stretched horizontally back to ears



Happiness

- crow's feet wrinkles
- pushed up cheeks
- movement from the muscle that orbits the eye



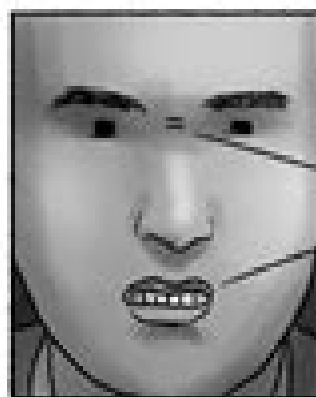
Contempt

- lip corner tightened and raised on only one side of the face



Anger

- eyebrows down and together
- eyes glare
- narrowing of the lips



Disgust

- nose wrinkling
- upper lip raised



Surprise

- eyebrows raised
- eyes widened
- mouth open

Microexpression Manual

Dylan Clearfield



Microexpression Manual:

Recognizing Microexpression: An Interdisciplinary Perspective Xunbing Shen, Wenfeng Chen, Guoying Zhao, Ping Hu, 2019-11-14 As a Chinese saying goes Look at the weather when you step out look at men s faces when you step in Recognizing expressions is a very common activity in daily life People can infer someone s inner emotions from his or her facial expressions However not everyone writes their emotion on their face someone may suppress true emotion and express a false facial expression depending on politeness context culture or status The suppressed expressions can be expressed fleetingly in the form of microexpressions which usually last only 1 25 to 1 5 second Microexpressions were of importance for many practical applications because it reflects the true inner feeling such as national security deception detection clinical therapy emotion analysis and human computer interaction The recognition of microexpressions is the premise of application of microexpression and now the recognition of microexpressions are getting more and more attention However perceiving other s microexpressions is not easy The context culture and perceiver himself affect the recognition of microexpression There are considerable efforts in the field of psychology neuroscience and computer science to recognize facial microexpressions This Research Topic illuminates the latest advances in interdisciplinary understanding how microexpressions are perceived and recognized The authors contribute from diverse perspectives in the current research topic by using behavioral experiment EEG fMRI and computer vision techniques They investigated how humans recognize macroexpressions and microexpressions in term of modulating factors e g gender duration and the underlying neural mechanisms and how machine recognition algorithms and models are developed and inspired by the human recognition data The Research Topic reveals that research on the recognition of microexpressions is diverse but progressing This is not surprising given that this topic receives more and more attention due to its promising potential applications As new techniques and theories develop it is likely that efficient and effective algorithms for recognizing microexpression will become possible We hope that these articles provide a look into that future

Service-Oriented Computing - ICSOC 2021 Workshops Hakim Hacid, Monther Aldwairi, Mohamed Reda Bouadjenek, Marinella Petrocchi, Noura Faci, Fatma Outay, Amin Beheshti, Lauritz Thamsen, Hai Dong, 2022-08-23 This book constitutes the selected papers from the scientific satellite events held in conjunction with the 19th International Conference on Service Oriented Computing ICSOC 2021 The conference was held Dubai United Arab Emirates in November 2021 This year these satellite events were organized around three main tracks including a workshop track a demonstration track and a tutorials track The ICSOC 2021 workshop track consisted of the following three workshops covering a wide range of topics that fall into the general area of service computing International Workshop on Artificial Intelligence for IT Operations AIOps 3rd Workshop on Smart Data Integration and Processing STRAPS 2021 International Workshop on AI enabled Process Automation AI PA 2021

Computer Vision - ECCV 2014 Workshops Lourdes Agapito, Michael M. Bronstein, Carsten Rother, 2015-03-18 The four volume set LNCS 8925 8926

8927 and 8928 comprises the refereed post proceedings of the Workshops that took place in conjunction with the 13th European Conference on Computer Vision ECCV 2014 held in Zurich Switzerland in September 2014 The 203 workshop papers were carefully reviewed and selected for inclusion in the proceedings They were presented at workshops with the following themes where computer vision meets art computer vision in vehicle technology spontaneous facial behavior analysis consumer depth cameras for computer vision chlearn looking at people pose recovery action interaction gesture recognition video event categorization tagging and retrieval towards big data computer vision with local binary pattern variants visual object tracking challenge computer vision ontology applies cross disciplinary technologies visual perception of affordance and functional visual primitives for scene analysis graphical models in computer vision light fields for computer vision computer vision for road scene understanding and autonomous driving soft biometrics transferring and adapting source knowledge in computer vision surveillance and re identification color and photometry in computer vision assistive computer vision and robotics computer vision problems in plant phenotyping and non rigid shape analysis and deformable image alignment Additionally a panel discussion on video segmentation is included Communications, Signal Processing, and Systems Qilian Liang, Wei Wang, Xin Liu, Zhenyu Na, Min Jia, Baoju Zhang, 2020-04-04 This book brings together papers from the 2019 International Conference on Communications Signal Processing and Systems which was held in Urumqi China on July 20 22 2019 Presenting the latest developments and discussing the interactions and links between these multidisciplinary fields the book spans topics ranging from communications to signal processing and systems It is chiefly intended for undergraduate and graduate students in electrical engineering computer science and mathematics researchers and engineers from academia and industry as well as government employees *Bridging the Gap between Machine Learning and Affective Computing* Zhen Cui, Abhinav Dhall, Xiaopeng Hong, Yong Li, Wenming Zheng, Yuan Zong, 2023-01-05 Affective computing refers to computing that relates to arises from or influences emotions as pioneered by Rosalind Picard in 1995 The goal of affective computing is to bridge the gap between human and machines and ultimately enable robots to communicate with human naturally and emotionally Recently the research on affective computing has gained considerable progress with many fields contributing including neuroscience psychology education medicine behavior sociology and computer science Current research in affective computing mainly focuses on estimating of human emotions through different forms of signals e g face video EEG Speech PET scans or fMRI Inferring the emotion of humans is difficult as emotion is a subjective unconscious experience characterized primarily by psycho physiological expressions and biological reactions It is influenced by hormones and neurotransmitters such as dopamine noradrenaline serotonin oxytocin GABA etc The physiology of emotion is closely linked to arousal of the nervous system with various states and strengths relating apparently to different particular emotions To understand emotion or affect merely by machine learning or big data analysis is not enough but the understanding and applications from the intrinsic features of emotions from the neuroscience aspect is essential Data

Mining Trends and Applications in Criminal Science and Investigations Isafiade, Omowunmi E., Bagula, Antoine B., 2016-06-20

The field of data mining is receiving significant attention in today's information rich society where data is available from different sources and formats in large volumes and no longer constitutes a bottleneck for knowledge acquisition. This rich information has paved the way for novel areas of research particularly in the crime data analysis realm. *Data Mining Trends and Applications in Criminal Science and Investigations* presents scientific concepts and frameworks of data mining and analytics implementation and uses across various domains such as public safety, criminal investigations, intrusion detection, crime scene analysis and suspect modeling. Exploring the diverse ways that data is revolutionizing the field of criminal science, this publication meets the research needs of law enforcement professionals, data analysts, investigators, researchers and graduate level students. *Computational Intelligence for Pattern Recognition* Witold Pedrycz, Shyi-Ming

Chen, 2018-04-30 The book presents a comprehensive and up to date review of fuzzy pattern recognition. It carefully discusses a range of methodological and algorithmic issues as well as implementations and case studies and identifies the best design practices, assesses business models and practices of pattern recognition in real world applications in industry, health care, administration and business. Since the inception of fuzzy sets, fuzzy pattern recognition with its methodology, algorithms and applications has offered new insights into the principles and practice of pattern classification. Computational intelligence (CI) establishes a comprehensive framework aimed at fostering the paradigm of pattern recognition. The collection of contributions included in this book offers a representative overview of the advances in the area with timely in depth and comprehensive material on the conceptually appealing and practically sound methodology and practices of CI based pattern recognition. **Student Activities Manual for Adler/Proctor II/Towne's Looking Out, Looking In, 11th** Ronald B.

Adler, Professor of Communication, Russell F. Proctor, II, Russell F. Proctor II, Neil Towne, 2004-05 Written by Mary O. Wiemann, Santa Barbara City College. This Activities Manual Study Guide contains more than fifty class tested exercises and more than five hundred study test items designed to build understanding of principles and proficiency in skills introduced in the book. Each chapter in the Activities Manual Study Guide parallels the corresponding chapter in *Looking Out, Looking In*. The SAGE Handbook of Personality Theory and Assessment Gregory John Boyle, Gerald Matthews, Donald H. Saklofske, 2008 About theories, models and assessment methods used for understanding the many facets of human personality and individual differences. It constitutes an essential resource for shaping the future of the scientific foundation of personality research, measurement and practice. Instructor's Manual for Looking Out-Looking In Ronald B. Adler, 1989 **Microexpressions**

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