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标题: Hierarchical Human Action Recognition with Self-Selection Classifiers via Skeleton Data

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来源出版物: COMMUNICATIONS IN THEORETICAL PHYSICS 卷: 70 期: 5页: 633-640 DOI: 10.1088/0253-6102/70/5/633 出版年: NOV 2018

Web of Science 核心合集中的 "被引频次": 0

被引频次合计:0

使用次数 (最近 180 天): 12 使用次数 (2013 年至今): 12 引用的参考文献数:38

摘要: Human action recognition has become one of the most active research topics in human-computer interaction and artificial intelligence, and has attracted much attention. Here, we employ a low-cost optical sensor Kinect to capture the action information of the human skeleton. We then propose a twolevel hierarchical human action recognition model with self-selection classifiers via skeleton data. Especially different optimal classifiers are selected by probability voting mechanism and 10 times 10-fold cross validation at different coarse grained levels. Extensive simulations on a well-known open dataset and results demonstrate that our proposed method is efficient in human action recognition, achieving 94.19% the average recognition rate and 95.61% the best rate.

入藏号: WOS:000451760400018

语言: English 文献类型: Article

作者关键词: human action recognition; hierarchical architecture model; self-selection classifiers; optimal classification unit

KeyWords Plus: DEPTH

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出版商: IOP PUBLISHING LTD

出版商地址: TEMPLE CIRCUS, TEMPLE WAY, BRISTOL BS1 6BE, ENGLAND

Web of Science 类别: Physics, Multidisciplinary

研究方向: Physics IDS号: HC4GG ISSN: 0253-6102 eISSN: 1572-9494

29 字符的来源出版物名称缩写: COMMUN THEOR PHYS

ISO 来源出版物缩写: Commun. Theor. Phys.

来源出版物页码计数: 8

基金资助致谢:

基金资助机构	授权号
National Nature Science Foundation of China	11475003
	61603003
	11471093
Key Project of Cultivation of Leading Talents in Universities of Anhui Province	gxfxZD2016174
Funds of Integration of Cloud Computing and Big Data	
Innovation of Science and Technology of Ministry of Education of China	2017A09116
Anhui Provincial Department of Education Outstanding Top-Notch Talent-Funded Project	gxbjZD26

Supported by the National Nature Science Foundation of China under Grant Nos. 11475003, 61603003, and 11471093; the Key Project of Cultivation of Leading Talents in Universities of Anhui Province under Grant No. gxfxZD2016174; Funds of Integration of Cloud Computing and Big Data; Innovation of Science and Technology of Ministry of Education of China under Grant No. 2017A09116; and Anhui Provincial Department of Education Outstanding Top-Notch Talent-Funded Project under Grant No. gxbjZD26

输出日期: 2019-06-13

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