

EMERGING

NOW READING

What Is Affective computing? Top 15 Affective computing Companies

nature
interaction
Pattern Recognition

NEXT >
◀ PREV
✖

CONTENTS

WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES

AFFECTIVE COMPUTING
LANDSCAPE

LABS IN AFFECTIVE
COMPUTING

TOP COMPANIES IN
AFFECTIVE COMPUTING

ALGORITHMS IN
AFFECTIVE COMPUTING

nature
interaction
Pattern Recognition

NEXT >
◀ PREV
✖

CONTENTS

WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES

AFFECTIVE COMPUTING
LANDSCAPE

LABS IN AFFECTIVE
COMPUTING

TOP COMPANIES IN
AFFECTIVE COMPUTING

ALGORITHMS IN
AFFECTIVE COMPUTING

INDUSTRY APPLICATIONS

USER REVIEWS

LEAVE A DETAILED REVIEW

nature
interaction
Pattern Recognition

NEXT >
◀ PREV
✖

CONTENTS

WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES

AFFECTIVE COMPUTING
LANDSCAPE

LABS IN AFFECTIVE
COMPUTING

TOP COMPANIES IN
AFFECTIVE COMPUTING

ALGORITHMS IN
AFFECTIVE COMPUTING

INDUSTRY APPLICATIONS

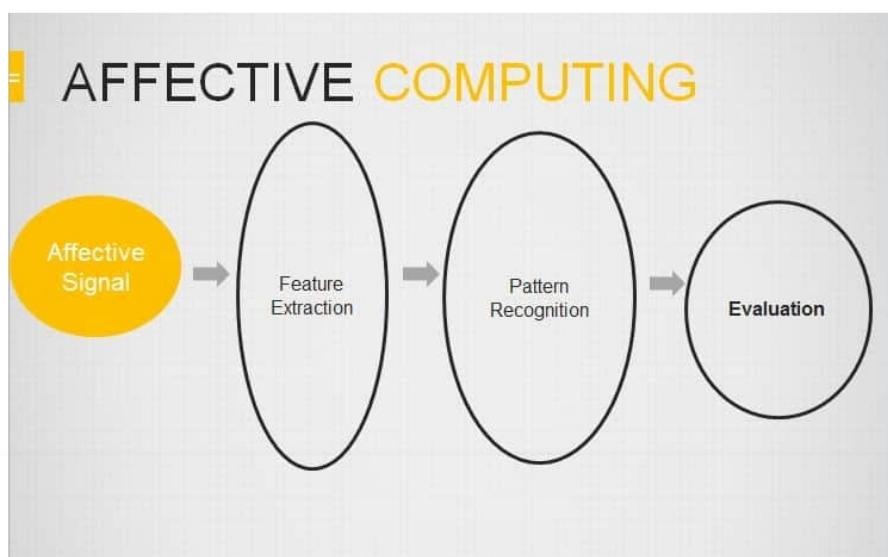
USER REVIEWS

LEAVE A DETAILED REVIEW

heart 7

comment 0

WHAT IS AFFECTIVE COMPUTING? TOP 15 AFFECTIVE COMPUTING COMPANIES



9

4.8 (96%) 25 ratings Affective computing is the study and development of systems and devices that have the ability to detect, recognize, interpret, process, simulate human emotions and appropriately respond to its user's emotions, relative to user emotion from visual, textual, and auditory sources. Affective computing is an emerging technology and combines computer science, psychology, and cognitive science.

This is pioneered by Rosalind Picard's 1995 paper on affective computing for the ability to simulate empathy. In Affective computing, the machine should interpret the emotional state of humans and adapt its behavior to them, giving an appropriate response for those emotions. Research is further needed in Affective computing in detecting emotions from videos, audio, text, facial expressions and gestures. MIT Media Lab is a leading research facility for affective cognitive states, especially through creation of wearable sensors and new machine learning algorithms and creating new techniques to assess frustration, stress, and mood indirectly, through natural interaction and conversation.

Affective computing Landscape

Labs: MIT Media Lab, Microsoft VIBE Lab.

Companies: CrowdEmotion, Emotient, Beyond Verbal, Affectiva, nViso, PointGrab, Realeyes, the Affective Computing Company, Elliptic Labs, SoftKinetic, Intel RealSense, Eyeris, Kairos, Gestigon, Sension .

NEXT >

< PREV

CONTENTS

WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES

AFFECTIVE COMPUTING
LANDSCAPE

LABS IN AFFECTIVE
COMPUTING

TOP COMPANIES IN
AFFECTIVE COMPUTING

ALGORITHMS IN
AFFECTIVE COMPUTING

INDUSTRY APPLICATIONS

USER REVIEWS

LEAVE A DETAILED REVIEW

Pattern Recognition

NEXT >

< PREV

CONTENTS

WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES

AFFECTIVE COMPUTING
LANDSCAPE

LABS IN AFFECTIVE
COMPUTING

TOP COMPANIES IN
AFFECTIVE COMPUTING

ALGORITHMS IN
AFFECTIVE COMPUTING

INDUSTRY APPLICATIONS

USER REVIEWS

LEAVE A DETAILED REVIEW

Pattern Recognition

NEXT >

< PREV

CONTENTS

WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES

AFFECTIVE COMPUTING
LANDSCAPE

LABS IN AFFECTIVE
COMPUTING

TOP COMPANIES IN
AFFECTIVE COMPUTING

ALGORITHMS IN
AFFECTIVE COMPUTING

INDUSTRY APPLICATIONS

USER REVIEWS

LEAVE A DETAILED REVIEW

Pattern Recognition

NEXT >

< PREV

CONTENTS

WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES

AFFECTIVE COMPUTING LANDSCAPE

Labs

MIT Media Lab, Microsoft VIBE Lab

Companies

Affectiva, Realeyes, Emotient, Beyond Verbal, Sension, tACC, nVisio, CrowdEmotion, PointGrab, Eyeris, gestigon, Intel RealSense, SoftKinetic, Elliptic Labs, and Kairos

Labs in Affective computing

1.MIT Media Lab

MIT Media Lab, Affective Computing research combines engineering and computer science with psychology, cognitive science, neuroscience, sociology, education, psychophysiology, value-centered design, ethics, and more.

[MIT Media Lab,](#)

2.Microsoft VIBE

VIBE stands for "Visualization and Interaction for Business and Entertainment", and our group focuses primarily on Emotion Tracking, tracking tools and theoretical development.

[Microsoft VIBE](#)

Top Companies in Affective computing

Top Companies in Affective computing includes CrowdEmotion, Emotient, Beyond Verbal, Affectiva, nViso, PointGrab, Realeyes, the Affective Computing Company, Elliptic Labs, SoftKinetic, Intel RealSense, Eyeris, Kairos, Gestigon, Sension.

AFFECTIVE COMPUTING SOFTWARE			PAT INDEX™	SORT ▾
Emotient	9.1 7.9	Compare	95	
CrowdEmotion	9.5 8.7	Compare	89	
Kairos	7.5 6.9	Compare	84	
Affectiva	8.3 6.1	Compare	66	
Beyond Verbal	8.5 8.4	Compare	62	
nViso	8.1 6.9	Compare	55	
PointGrab	8.0 7.6	Compare	55	
Eyeris	7.5 6.2	Compare	52	
Realeyes	8.0 8.6	Compare	51	
the Affective Computing Company	7.9 8.6	Compare	50	
Elliptic Labs	7.9 8.5	Compare	49	
Intel RealSense	7.8 —	Compare	49	

1 CrowdEmotion

[CrowdEmotion](#)

CrowdEmotion humanises technology to understand who we are and how we feel and blend academic thinking in emotion recognition with our unique cloud-based sentiment software to unlock human understanding. MeMo is a two-way video format that responds to your body language to serve highly personalised content, provide emotional discovery, and understand your engagement. CloudEmotion API is a cloud based platform to capture, quantify, and interpret emotion data. Track facial expressions, listen for arousal and stress, or work with us to experiment a brand new biometric. CrowdEmotion achieves this by providing access to our machine-learned process for tracking micro-facial expressions and...

[CrowdEmotion](#)

Emotient is a leader in emotion detection and sentiment analysis based on facial expressions. The company is at the vanguard of a new wave of emotion analysis that will lead to a quantum leap in customer understanding and emotion-aware computing. Emotient's cloud-based services deliver direct measurement of a customer's unfiltered emotional response to ads, content, products and customer service or sales interactions. Emotient delivers this value quickly, affordably, and at scale. Emotient KPIs Attention – Is your advertising or product getting noticed? Engagement – Are people responding emotionally? Sentiment – Are they showing positive, negative or no emotion? Emotient

[Emotient](#)



CONTENTS

WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES

AFFECTIVE COMPUTING
LANDSCAPE

LABS IN AFFECTIVE
COMPUTING

TOP COMPANIES IN
AFFECTIVE COMPUTING

ALGORITHMS IN
AFFECTIVE COMPUTING

INDUSTRY APPLICATIONS

USER REVIEWS

LEAVE A DETAILED REVIEW



CONTENTS

WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES

AFFECTIVE COMPUTING
LANDSCAPE

LABS IN AFFECTIVE
COMPUTING

TOP COMPANIES IN
AFFECTIVE COMPUTING

ALGORITHMS IN
AFFECTIVE COMPUTING

INDUSTRY APPLICATIONS

USER REVIEWS

LEAVE A DETAILED REVIEW

Affective computing
Companies



CONTENTS

WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES

AFFECTIVE COMPUTING
LANDSCAPE

LABS IN AFFECTIVE
COMPUTING

TOP COMPANIES IN
AFFECTIVE COMPUTING

ALGORITHMS IN
AFFECTIVE COMPUTING

Affective computing
Companies



3 Beyond Verbal

Beyond Verbal

Beyond Verbal has a specialized approach by evaluating human voice. Beyond Verbal's patented technology that analyzes emotions from a speaker's voice in real-time, as they speak. The extraction, decoding and measurement of emotions introduces a whole new dimension of emotional understanding, which we call voice-driven Emotions Analytics. It has the potential to transform the way we understand ourselves, our emotional well-being, our interactions with machines, and most importantly, the way we communicate with each other. VALENCE is a variable ranging from negativity to positivity. When listening to a person talk, it is possible to understand how "positive" or "negative" they...

Beyond Verbal

[◀ PREV](#)

CONTENTS

[WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES](#)[AFFECTIVE COMPUTING
LANDSCAPE](#)[LABS IN AFFECTIVE
COMPUTING](#)[TOP COMPANIES IN
AFFECTIVE COMPUTING](#)[ALGORITHMS IN
AFFECTIVE COMPUTING](#)[Interaction](#)[Pattern Recognition](#)[NEXT ▶](#)[◀ PREV](#)

CONTENTS

[WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES](#)[AFFECTIVE COMPUTING
LANDSCAPE](#)[LABS IN AFFECTIVE
COMPUTING](#)[TOP COMPANIES IN
AFFECTIVE COMPUTING](#)[ALGORITHMS IN
AFFECTIVE COMPUTING](#)[INDUSTRY APPLICATIONS](#)[USER REVIEWS](#)[LEAVE A DETAILED REVIEW](#)[Interaction](#)[Pattern Recognition](#)[NEXT ▶](#)[◀ PREV](#)

CONTENTS

[WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES](#)[AFFECTIVE COMPUTING
LANDSCAPE](#)[LABS IN AFFECTIVE
COMPUTING](#)[TOP COMPANIES IN
AFFECTIVE COMPUTING](#)[ALGORITHMS IN
AFFECTIVE COMPUTING](#)[INDUSTRY APPLICATIONS](#)[USER REVIEWS](#)[LEAVE A DETAILED REVIEW](#)[Interaction](#)[Pattern Recognition](#)[NEXT ▶](#)[◀ PREV](#)

CONTENTS

[WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES](#)[AFFECTIVE COMPUTING
LANDSCAPE](#)[LABS IN AFFECTIVE
COMPUTING](#)[TOP COMPANIES IN
AFFECTIVE COMPUTING](#)[ALGORITHMS IN
AFFECTIVE COMPUTING](#)

4 Affectiva

[Affectiva](#)[Compare](#)

Affectiva solutions provide valuable insights into consumers emotional engagement with anything from digital content to brands, advertising, movie trailers, and TV programs. Affectiva's technology can enable applications to use a webcam to track a user's smirks, smiles, frowns and furrows, which measures the user's levels of surprise, amusement or confusion. Affdex augments quantitative research by objectively measuring consumer emotions unobtrusively, cost effectively. Affdex's mobile capability extends emotion measurement to market research, application development. Emotion as a Service analyzes human expressions of emotion simply and cost-effectively. Send data collected with optical sensors or cameras, get powerful emotion data back .Offline Lab...

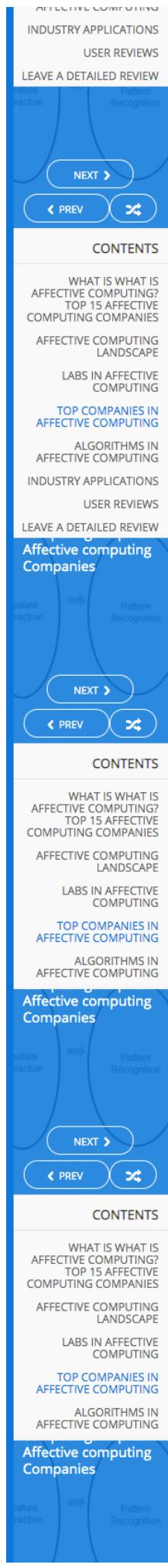
[Affectiva](#)

5 nViso

[nViso](#)[Compare](#)

nViso is a leading provider of emotion recognition software that interprets human facial micro-expressions and eye movements captured through video. Its solutions interpret micro-expressions, facial expressions, and the gaze, with artificial intelligence to track...
Interaction Pattern Recognition

[nViso](#)



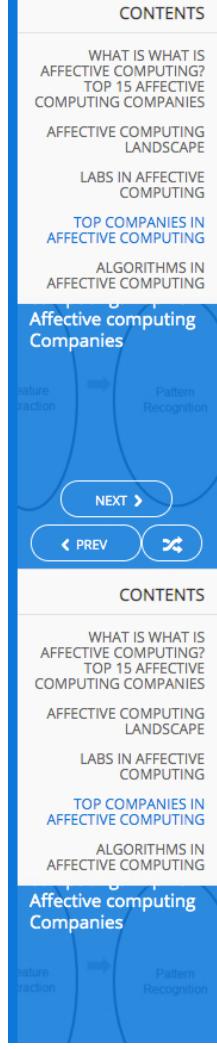
6 PointGrab

[PointGrab](#)

PointGrab provides smart sensor solutions to the building automation industry. The company applies its superior deep-learning technology to the building automation ecosystem, where opportunities to gather data are abundant, but efficient, real-time analytics are lacking. Smart sensors are crucial enabling elements of today's building automation capabilities, providing the data required to optimize building operations, energy savings and workplace intelligence. With nearly 30 million installations of PointGrab's Human-Machine Interface (HMI) software in today's consumer electronic devices, the company has demonstrated a proven ability to identify and deliver effective sensing solutions on a large scale.

PointGrab

PointGrab



7 Realeyes

[Realeyes](#)

Using webcams, Realeyes measure how people feel as they watch video content, enabling marketers to confidently target optimised content to the right audiences. Realeyes uses Dr Ekman's six basic emotions at the core of its automated facial coding platform. Realeyes constructed an online coding system which can process and report results from all over the world in seconds, dramatically improving the viability of the technique and scaling its potential. Realeyes

Realeyes

[NEXT >](#)[◀ PREV](#)

CONTENTS

[WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES](#)[AFFECTIVE COMPUTING
LANDSCAPE](#)[LABS IN AFFECTIVE
COMPUTING](#)[TOP COMPANIES IN
AFFECTIVE COMPUTING](#)[ALGORITHMS IN
AFFECTIVE COMPUTING](#)Affective computing
Companiesnature
emotionPattern
Recognition[NEXT >](#)[◀ PREV](#)

CONTENTS

[WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES](#)[AFFECTIVE COMPUTING
LANDSCAPE](#)[LABS IN AFFECTIVE
COMPUTING](#)[TOP COMPANIES IN
AFFECTIVE COMPUTING](#)[ALGORITHMS IN
AFFECTIVE COMPUTING](#)

8 the Affective Computing Company

[tACC](#)[Compare](#)

the Affective Computing Company develops software products and services that influence, recognize, interpret, process, and simulate human emotion. The H2H Platform powers content delivery and data collection solutions across a variety of industries and uses. H2H Platform helps to manage and deliver content, create context, influence and measure emotion, collect and analyze data, and build bonds. tACC

[the Affective Computing Company](#)Affective computing
Companiesnature
emotionPattern
Recognition[NEXT >](#)[◀ PREV](#)

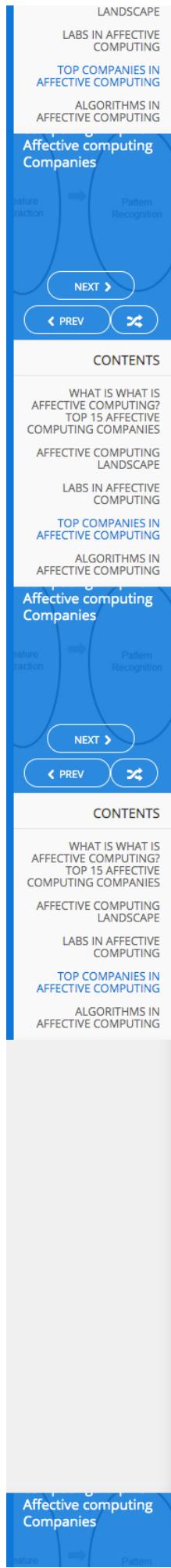
CONTENTS

[WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES](#)[AFFECTIVE COMPUTING](#)

9 Elliptic Labs

[Elliptic Labs](#)[Compare](#)

Elliptic Labs ultrasonic technology provides 3D touchless gesturing for consumer devices, creating more intuitive ways for users to navigate content and access information, while making devices more beautiful. The technology can be



integrated in a mobile devices and IoT appliances. Ultrasound offers the best combination of high resolution, 180-degreee interaction space and lower power consumption compared to camera and other sensing technologies. Elliptic Labs

[Elliptic Labs](#)

10 SoftKinetic

[SoftKinetic](#) 

SoftKinetic is a leading provider of 3D vision technology for consumer electronics and industrial applications covering three core areas. Active control to allow the user to control devices using gestures instead of touch, Context awareness to enable devices to gather and use information about their environment, including location, time of day, user activity, and nearby users or devices and real world acquisition to collect accurate 3D models of the real world. SoftKinetic, is a leader in 3D vision and gesture recognition technologies. The DepthSense 3D CMOS Time-of-Flight sensors and cameras, together with advanced middleware, provide cutting-edge 3D vision capabilities for...

[SoftKinetic](#)

a best-in-class depth sensor and a full 1080p color camera. It has the ability to detect finger level movements enabling highly accurate gesture recognition,

facial...

Intel RealSense

CONTENTS

WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES

AFFECTIVE COMPUTING
LANDSCAPE

LABS IN AFFECTIVE
COMPUTING

TOP COMPANIES IN
AFFECTIVE COMPUTING

ALGORITHMS IN
AFFECTIVE COMPUTING

Companies

Nature
Interaction

Pattern
Recognition

NEXT >

< PREV



CONTENTS

WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES

AFFECTIVE COMPUTING
LANDSCAPE

LABS IN AFFECTIVE
COMPUTING

TOP COMPANIES IN
AFFECTIVE COMPUTING

ALGORITHMS IN
AFFECTIVE COMPUTING

INDUSTRY APPLICATIONS

Nature
Interaction

Pattern
Recognition

NEXT >

< PREV



CONTENTS

WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES

AFFECTIVE COMPUTING
LANDSCAPE

LABS IN AFFECTIVE
COMPUTING

TOP COMPANIES IN
AFFECTIVE COMPUTING

ALGORITHMS IN
AFFECTIVE COMPUTING

INDUSTRY APPLICATIONS

USER REVIEWS

LEAVE A DETAILED REVIEW

12 Eyeris

Eyeris

Compare

users. Eyeris supports Ambient Intelligence where it embeds into the environment...

Eyeris

13 Kairos

Kairos

Compare

Kairos is a software that understands people with face recognition technology. Kairos contains human analytic features that can be used to gather unique, real-time insights about people interacting with the system. These key features include

LABS IN AFFECTIVE COMPUTING

TOP COMPANIES IN AFFECTIVE COMPUTING

ALGORITHMS IN AFFECTIVE COMPUTING

INDUSTRY APPLICATIONS

USER REVIEWS

LEAVE A DETAILED REVIEW

Face detection

Pattern Recognition

NEXT >

< PREV



CONTENTS

WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES

AFFECTIVE COMPUTING
LANDSCAPE

LABS IN AFFECTIVE
COMPUTING

TOP COMPANIES IN
AFFECTIVE COMPUTING

ALGORITHMS IN
AFFECTIVE COMPUTING

INDUSTRY APPLICATIONS

USER REVIEWS

LEAVE A DETAILED REVIEW

Face detection

Pattern Recognition

NEXT >

< PREV



CONTENTS

WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES

AFFECTIVE COMPUTING
LANDSCAPE

LABS IN AFFECTIVE
COMPUTING

TOP COMPANIES IN
AFFECTIVE COMPUTING

ALGORITHMS IN
AFFECTIVE COMPUTING

INDUSTRY APPLICATIONS

USER REVIEWS

LEAVE A DETAILED REVIEW

Face detection

Pattern Recognition

NEXT >

< PREV



CONTENTS

WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES

AFFECTIVE COMPUTING
LANDSCAPE

LABS IN AFFECTIVE
COMPUTING

TOP COMPANIES IN
AFFECTIVE COMPUTING

ALGORITHMS IN
AFFECTIVE COMPUTING

INDUSTRY APPLICATIONS

USER REVIEWS

LEAVE A DETAILED REVIEW

Face detection

Pattern Recognition

face detection which can find and track faces in any video, photo or image. Kairos also does face identification by matching faces to their owners. Kairos then does face verification to confirm who the user is. Kairos detects emotions like anger, sadness, fear, among others. It detects ages like being young or an adult. It also detects if the user is male or female; gender. Kairos...

Kairos

[NEXT >](#)

[◀ PREV](#) [✖](#)

CONTENTS

- WHAT IS WHAT IS AFFECTIVE COMPUTING?
- TOP 15 AFFECTIVE COMPUTING COMPANIES
- AFFECTIVE COMPUTING LANDSCAPE
- LABS IN AFFECTIVE COMPUTING
- [TOP COMPANIES IN AFFECTIVE COMPUTING](#)
- ALGORITHMS IN AFFECTIVE COMPUTING
- INDUSTRY APPLICATIONS
- USER REVIEWS
- LEAVE A DETAILED REVIEW

[NEXT >](#)

[◀ PREV](#) [✖](#)

Sensor

Sensor 

[NEXT >](#)

[◀ PREV](#) [✖](#)

CONTENTS

- WHAT IS WHAT IS AFFECTIVE COMPUTING?
- TOP 15 AFFECTIVE COMPUTING COMPANIES
- AFFECTIVE COMPUTING LANDSCAPE
- LABS IN AFFECTIVE COMPUTING
- [TOP COMPANIES IN AFFECTIVE COMPUTING](#)
- ALGORITHMS IN AFFECTIVE COMPUTING
- INDUSTRY APPLICATIONS
- USER REVIEWS
- LEAVE A DETAILED REVIEW

[NEXT >](#)

[◀ PREV](#) [✖](#)

Sensor

[NEXT >](#)

[◀ PREV](#) [✖](#)

CONTENTS

- WHAT IS WHAT IS AFFECTIVE COMPUTING?
- TOP 15 AFFECTIVE COMPUTING COMPANIES
- AFFECTIVE COMPUTING LANDSCAPE
- LABS IN AFFECTIVE COMPUTING
- [TOP COMPANIES IN AFFECTIVE COMPUTING](#)
- ALGORITHMS IN AFFECTIVE COMPUTING
- INDUSTRY APPLICATIONS
- USER REVIEWS
- LEAVE A DETAILED REVIEW

[NEXT >](#)

[◀ PREV](#) [✖](#)

Sensor

[NEXT >](#)

[◀ PREV](#) [✖](#)

CONTENTS

- WHAT IS WHAT IS AFFECTIVE COMPUTING?
- TOP 15 AFFECTIVE

COMPUTING COMPANIES
AFFECTIVE COMPUTING LANDSCAPE
LABS IN AFFECTIVE COMPUTING
TOP COMPANIES IN AFFECTIVE COMPUTING
ALGORITHMS IN AFFECTIVE COMPUTING
INDUSTRY APPLICATIONS
USER REVIEWS
LEAVE A DETAILED REVIEW

Pattern Recognition

NEXT > PREV < X

CONTENTS

WHAT IS WHAT IS AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE COMPUTING COMPANIES

AFFECTIVE COMPUTING LANDSCAPE
LABS IN AFFECTIVE COMPUTING
TOP COMPANIES IN AFFECTIVE COMPUTING
ALGORITHMS IN AFFECTIVE COMPUTING
INDUSTRY APPLICATIONS
USER REVIEWS
LEAVE A DETAILED REVIEW

Affective computing Companies

Nature Interaction Pattern Recognition

NEXT > PREV < X

CONTENTS

WHAT IS WHAT IS AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE COMPUTING COMPANIES

AFFECTIVE COMPUTING LANDSCAPE
LABS IN AFFECTIVE COMPUTING
TOP COMPANIES IN AFFECTIVE COMPUTING
ALGORITHMS IN AFFECTIVE COMPUTING

Affective computing Companies

Nature Interaction Pattern Recognition

NEXT > PREV < X

CONTENTS

WHAT IS WHAT IS AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE COMPUTING COMPANIES

AFFECTIVE COMPUTING LANDSCAPE
LABS IN AFFECTIVE COMPUTING
TOP COMPANIES IN AFFECTIVE COMPUTING
ALGORITHMS IN

- Linear classifier: LDC Classification happens based on the value obtained from the linear combination of the feature values, which are usually provided in the form of vector features.
- K-nearest neighbors algorithm: Classification happens by locating the object in the feature space, and comparing it with the k nearest neighbours (training examples). The majority vote decides on the classification.
- Support vector machine: SVM is a type of (usually binary) linear classifier which decides in which of the two (or more) possible classes, each input may fall into.
- Artificial neural network: ANN is a mathematical model, inspired by biological neural networks, that can better grasp possible non-linearities of the feature space.
- Decision tree: Algorithms work based on following a decision tree in which leaves represent the classification outcome, and branches represent the conjunction of subsequent features that lead to the classification.
- Hidden Markov model: HMMs is a statistical Markov model in which the states and state transitions are not directly available to observation. Instead, the series of outputs dependent on the states are visible.
- Mixture model: GMM is a probabilistic model used for representing the existence of sub-populations within the overall population. Each sub-population is described using the mixture distribution, which allows for classification of observations into the sub-populations.

Industry Applications

Examples of Industry Applications include e learning, market research, advertising, collaboration apps, robotics, and mental health research.

AFFECTIVE COMPUTING SOFTWARE: ALL	1 Emotient	2 CrowdEmotion	3 Kairos	4 Affectiva	5 Beyond Verbal
PAT INDEX™					
SORT ▾					
6 nViso	7 PointGrab	8 Eyeris	9 Realeyes	10 the Affective Computing Company	

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REVIEWS

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[NEXT >](#)[◀ PREV](#)

CONTENTS

WHAT IS WHAT IS
AFFECTIVE COMPUTING?
TOP 15 AFFECTIVE
COMPUTING COMPANIES

AFFECTIVE COMPUTING
LANDSCAPELABS IN AFFECTIVE
COMPUTINGTOP COMPANIES IN
AFFECTIVE COMPUTINGALGORITHMS IN
AFFECTIVE COMPUTING

INDUSTRY APPLICATIONS

USER REVIEWS

LEAVE A DETAILED REVIEW

WHAT'S YOUR
REACTION?LOVE IT
100%VERY GOOD
0%INTERESTED
0%COOL
0%NOT BAD
0%WHAT !
0%HATE IT
0%

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Affective computing, Affective computing Landscape, Affective Computing Software, Algorithms in Affective computing, Emerging Technology

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imanuel

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Top 22 Intelligent
Personal Assistants
or Automated
Personal AssistantsWhat is AI-based
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Best Robotic
Process
Automation
Software for Your
BusinessWhat is Bioacoustic
Sensing ? Top 2
Bioacoustic Sensing
CompaniesWhat is Quantum
Computing ? Top
18 Quantum
Computing
Companies

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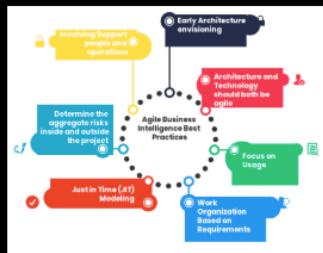
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10



