1. a forceful action or procedure (such as an unprovoked attack) especially when intended to dominate or master
2. **2:**  the practice of making attacks or encroachments; especially **:**  unprovoked violation by one country of the territorial integrity of another warned that any act of aggression could start a war
3. **3:**  hostile, injurious, or destructive behavior or outlook especially when caused by frustration Aggression is often the expression of pent-up rage.

The Application of Aggressive Space Mapping Algorithm in Microstrip Patch Antennna Design Feng Chen, Zhiwei Shi, Xi Deng, Jingping Song, and Yunlin Liu Institute of Electromagnetics, Southwest Jiaotong University Chengdu 610031 China

Low resting heart rate is a strong and consistent predictor of conduct disorder and chronic aggression. Explanations such as fearlessness and low arousal-induced stimulus-seeking have been offered, assuming a causal association between the phenomena, but the origin of low heart rate and its significance for understanding aggression and violence remain obscure. Retinoids (vitamin A and its congeners) play important roles in embryogenesis and neural development. Several lines of evidence also suggest a causal role of retinoids in aggression as well as cognitive and mood disorders. The hypothesis is proposed that retinoid overexpression in utero induces, via a noradrenergic-to-cholinergic switch, alterations in cardiac functioning and hemodynamics resulting in low resting heart rate, brain structural and functional changes, minor physical anomalies, and persistent aggression.

**When Aggression Follows Dementia**

**BY PAULA SPAN**

**Aggression in Persons with Dementia: Use of Nursing Theory to Guide Clinical Practice**

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# Calm Hearts, Bad Behavior

By [David Kohn](http://www.newyorker.com/contributors/david-kohn)

**Neuropsychiatry of Aggression**

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The limbic system consists of several components that interact with each other and project to areas of autonomic and somatomotor emotional control [8](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3053027/#R8). The amygdala has repeatedly been shown to mediate fear, defensive reactions, emotional learning, and motivation [7](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3053027/#R7). The amygdala and hypothalamus interact in the emotions of anger and fear [9](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3053027/#R9). Patients with damage to the amygdala show impairment in the recognition of fearful facial expressions [10](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3053027/#R10), and the amygdala is active in a number of human social conditioning and fear paradigms [11](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3053027/#R11).

**Local binary patterns** (LBP) is a type of visual descriptor used for classification in computer vision. LBP is the particular case of the Texture Spectrum model proposed in 1990. LBP was first described in 1994.

In image processing, a **Gabor filter**, named after Dennis**Gabor**, is a linear **filter** used for texture analysis, which means that it basically analyses whether there are any specific frequency content in the image in specific directions in a localized region around the point or region of analysis