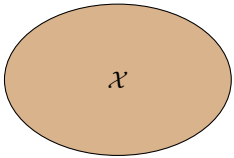
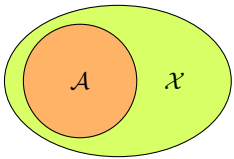
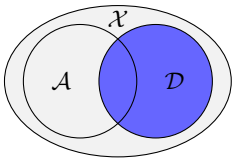
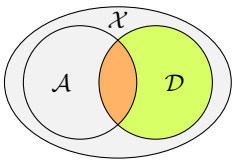
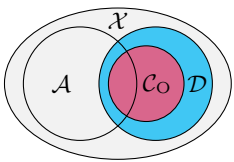
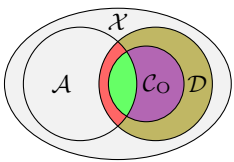
| | Euler diagram | Set legend | Set notation |
|---|---|---|---|
| (a) |   | real-world observations | $\mathcal{X}$ |
| (b) |   | labelled by expert as anomalous<br>labelled by expert as normal | $\mathcal{A}$<br>$\mathcal{X} \cap \overline{\mathcal{A}}$ |
| (c) |   | data points<br>unrecorded | $\mathcal{D}$<br>$\mathcal{X} \cap \overline{\mathcal{D}}$ |
| (d) |   | anomalies represented as data points<br>normalities represented as data points | $\mathcal{C}_{\mathrm{A}} = \mathcal{D} \cap \mathcal{A}$<br>$\mathcal{C}_{\mathrm{N}} = \mathcal{D} \cap \overline{\mathcal{A}}$ |
| (e) |   | classified by algorithm as an outlier<br>classified by algorithm as an inlier | $\mathcal{C}_{\mathrm{O}}$<br>$\mathcal{C}_{\mathrm{I}} = \mathcal{D} \cap \overline{\mathcal{C}_{\mathrm{O}}}$ |
| (f) |   | hits<br>false alarms<br>misses<br>correct rejects | $\mathcal{H}\rangle = \mathcal{C}_{\mathrm{A}} \cap \mathcal{C}_{\mathrm{O}}$<br>$\mathcal{FA} = \mathcal{C}_{\mathrm{N}} \cap \mathcal{C}_{\mathrm{O}}$<br>$\mathcal{M}\rangle = \mathcal{C}_{\mathrm{A}} \cap \mathcal{C}_{\mathrm{I}}$<br>$\mathcal{CR} = \mathcal{C}_{\mathrm{N}} \cap \mathcal{C}_{\mathrm{I}}$ |