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cost value function \cite{Cost}. However, such choices are heavily problem-dependent and no standard methods exist. In most traditional examples of TD learning, a predetermined set of basis function of the problem 
                               The chosen function class may not be rich enough to give a good approximation of the value function.
                           Interest constraints of the cut act of the cut ac
                               _t d_g rad TD_n or m_e r ror of approximating the gradient of the solution to Poisson's equation is reformulated as an equivalent ER and the property of the
                             optimal solution that lies on a subspace of the original RKHS is also presented. We provide a short review of an error analysis approximation of the original results of the original RKHS is also presented. We provide a short review of an error analysis approximation of the original results o
                                                                                                     (\alpha_i \alpha_j(x^i, x^j) \ge 0, \forall \alpha_i \in \Re, \forall x^i \in \Re)
 (1)
                           f(\cdot) = \sum_{i=1}^{N} \alpha_i(x^i, \cdot),
                           f, g \in {}^{\circ}
\langle f, g \rangle \sum_{i=1}^{N} \sum_{j=1}^{M} \alpha_{ij}(x^{i}, x^{j}).
(4)
                          g \langle f, g \rangle = \sum_{i=1}^{N} \alpha_i g(x^i) = \sum_{i=1}^{N} {}_{j} f(x^j)
                               _{i}nner_{p}roduct and is given by, \langle (x, \cdot), f(\cdot) \rangle =
                               f(x) \forall x \in
                             \forall f \in 0
                                  \langle x, \cdot \rangle = \langle x, x' \rangle = \langle x', x \rangle = \langle x', x \rangle.
                                             _rkhs, that are endowed with the inner product defined in e: rkhs_inner_product (denoted as \langle \cdot, \cdot \rangle
                           ||f||_{\sqrt{\langle f,f\rangle}}
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 $\lim_{n \to \infty} f_n(x) = \lim_{n \to \infty} \langle x, f_n \rangle = \langle x, f \rangle = f(x)$

 $_td$, the standard LSTD algorithm was reviewed and two versions of the differential TD learning algorithm were presented. A